

Appendix O

A2/Wrotham Road Uncalibrated and Calibrated Junction Model Results

Junctions 11										
ARCADY 11 - Roundabout Module										
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Filename: Junction 7 - Wrotham Road_A2 Linked Rbt - Sensitivity Uncalibrated.j11
Path: C:\Users\MatthewJohnson\Hub Transport Planning Ltd\Hub Transport Planning - General\Projects\T25526 Longfield Road, Meopham\Modelling\Arcady
Report generation date: 21/05/2026 10:27:03

»D1 - 2025 | Base | AM
»D2 - 2025 | Base | PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	95% Queue (PCU)	Delay (s)	RFC	Set ID	Queue (PCU)	95% Queue (PCU)	Delay (s)	RFC
	2025 - Base									
Junction 1 - Arm 2	D1	0.9	1.5	2.78	0.48	D2	0.8	1.7	2.59	0.45
Junction 1 - Arm 3		1.4	1.6	4.86	0.58		2.6	4.4	6.85	0.72
Junction 1 - Arm 4		5.8	29.2	13.12	0.85		3.7	13.6	9.26	0.79
Junction 1 - Arm 5		0.0	~1	0.00	0.00		0.0	~1	0.00	0.00
Junction 2 - Arm 1		2.5	8.4	12.35	0.71		1.8	2.8	9.07	0.64
Junction 2 - Arm 2		5.2	26.3	20.35	0.85		2.0	3.2	8.64	0.67
Junction 2 - Arm 4		1.3	1.7	3.43	0.55		1.1	1.5	3.05	0.51

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.
Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

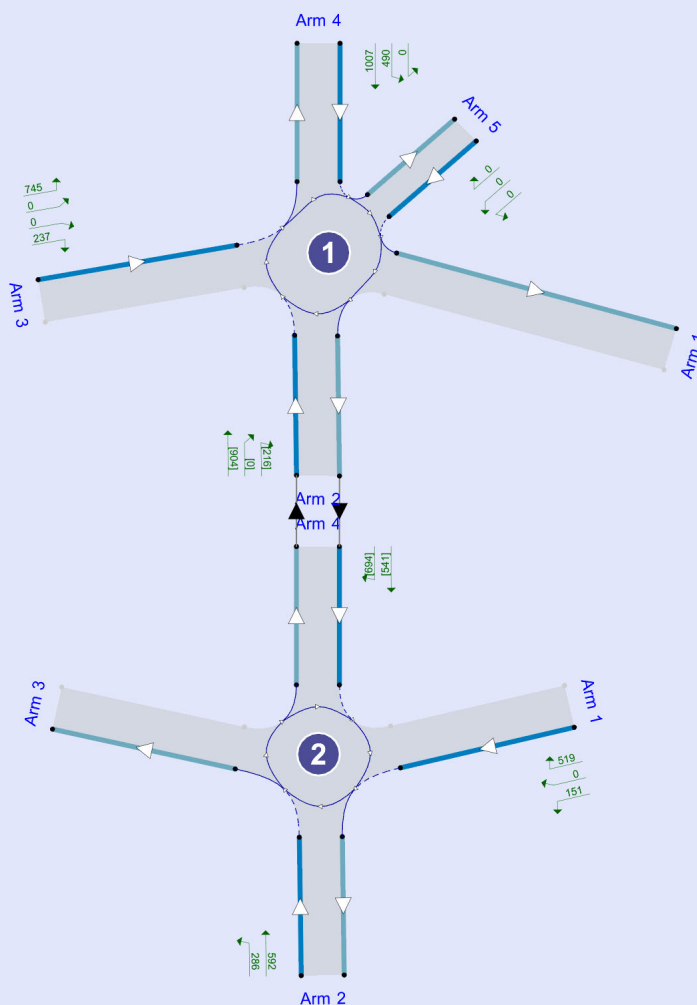
File summary

File Description

Title	
Location	Wrotham Road/A2 Southern Roundabout
Site number	7
Date	09/04/2026
Version	
Status	(new file)
Identifier	MJ
Client	Richborough
Jobnumber	T25512
Enumerator	AzureAD\MatthewJohnson
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)

The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
5.75	✓					0.85	36.00	20.00		

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2025	Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2025	Base	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

D1 - 2025 | Base | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	7.66	A
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	10.90	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.08	A

Arms

Arms

Junction	Arm	Name	Description	No give-way line
1	1	A2 (E) On-Slip		
	2	Wrotham Road S - Internal Link		
	3	A2 (W) Off-Slip		
	4	Wrotham Road N		
	5	Hotel access		
2	1	A2 (E) Off-Slip		
	2	Wrotham Road S		
	3	A2 (W) On-Slip		
	4	Wrotham Road N - Internal Link		

Roundabout Geometry

Junction	Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Entry only	Exit only
1	1								✓
	2	7.10	8.50	18.0	31.1	60.0	27.0		
	3	7.30	9.40	17.0	34.4	60.0	22.0	✓	
	4	4.80	8.30	22.3	43.1	60.0	24.0		
	5	3.10	6.10	5.1	13.0	60.0	42.0		
2	1	3.80	8.70	14.3	20.1	60.0	35.0	✓	
	2	4.20	8.40	12.8	25.5	60.0	22.0		
	3								✓
	4	7.20	8.30	15.0	20.5	60.0	28.0		

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Junction	Arm	Final slope	Final intercept (PCU/hr)
1	1		
	2	0.713	2560
	3	0.760	2797
	4	0.667	2262
	5	0.447	1168
2	1	0.575	1828
	2	0.613	1966
	3		
	4	0.693	2471

The slope and intercept shown above include any corrections and adjustments.

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2025	Base	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	982	100.000
	4		ONE HOUR	✓	1497	100.000
	5		ONE HOUR	✓	0	100.000
2	1		ONE HOUR	✓	670	100.000
	2		ONE HOUR	✓	878	100.000
	3					
	4	✓				

Origin-Destination Data

Junction 2

		To				
From		1	2	3	4	
	1	0	151	0	519	
	2	0	0	286	592	
	3	0	0	0	0	
	4	0	541	694	0	

Junction 1

		To					
From		1	2	3	4	5	
	1	0	0	0	0	0	
	2	216	0	0	904	0	
	3	0	237	0	745	0	
	4	490	1007	0	0	0	
	5	0	0	0	0	0	

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Junction 2

		To				
From		1	2	3	4	
	1	0	6	0	4	
	2	0	0	3	3	
	3	0	0	0	0	
	4	0	3	7	0	

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.48	2.78	0.9	1.5	A	1019	1528
	3	0.58	4.86	1.4	1.6	A	901	1352
	4	0.85	13.12	5.8	29.2	B	1374	2061
	5	0.00	0.00	0.0	~1	A	0	0
2	1	0.71	12.35	2.5	8.4	B	615	922
	2	0.85	20.35	5.2	26.3	C	806	1209
	3							
	4	0.55	3.43	1.3	1.7	A	1141	1711

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			933				527				
	2	832	208	0	2560	0.325	830	933	0.0	0.5	2.149	A
	3	739	185	830	2166	0.341	737	0	0.0	0.5	2.673	A
	4	1127	282	338	2037	0.553	1122	1229	0.0	1.3	4.084	A
	5	0	0	1460	515	0.000	0	0	0.0	0.0	0.000	A
2	1	504	126	930	1293	0.390	502	0	0.0	0.7	4.736	A
	2	661	165	911	1407	0.470	657	520	0.0	0.9	4.922	A
	3			832				737				
	4	933	233	0	2471	0.377	930	832	0.0	0.6	2.453	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1116				631				
	2	996	249	0	2560	0.389	995	1116	0.5	0.7	2.376	A
	3	883	221	995	2041	0.433	882	0	0.5	0.8	3.297	A
	4	1346	336	405	1992	0.676	1342	1472	1.3	2.1	5.751	A
	5	0	0	1747	387	0.000	0	0	0.0	0.0	0.000	A
2	1	602	151	1115	1187	0.507	601	0	0.7	1.1	6.393	A
	2	789	197	1092	1296	0.609	787	624	0.9	1.6	7.236	A
	3			996				883				
	4	1116	279	0	2471	0.451	1115	996	0.6	0.9	2.791	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1360				768				
	2	1210	303	0	2560	0.473	1209	1360	0.7	0.9	2.751	A
	3	1081	270	1209	1878	0.576	1079	0	0.8	1.4	4.772	A
	4	1648	412	494	1933	0.853	1635	1794	2.1	5.5	12.074	B
	5	0	0	2128	217	0.000	0	0	0.0	0.0	0.000	A
2	1	738	184	1358	1047	0.704	732	0	1.1	2.4	11.759	B
	2	967	242	1331	1150	0.841	954	760	1.6	4.8	17.821	C
	3			1210				1074				
	4	1360	340	0	2471	0.550	1358	1210	0.9	1.3	3.398	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1369				775				
	2	1222	305	0	2560	0.477	1222	1369	0.9	0.9	2.780	A
	3	1081	270	1222	1868	0.579	1081	0	1.4	1.4	4.858	A
	4	1648	412	497	1931	0.854	1647	1806	5.5	5.8	13.123	B
	5	0	0	2144	210	0.000	0	0	0.0	0.0	0.000	A
2	1	738	184	1369	1041	0.709	737	0	2.4	2.5	12.348	B
	2	967	242	1340	1144	0.845	965	766	4.8	5.2	20.352	C
	3			1222				1084				
	4	1369	342	0	2471	0.554	1369	1222	1.3	1.3	3.434	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1129				641				
	2	1013	253	0	2560	0.395	1014	1129	0.9	0.7	2.407	A
	3	883	221	1014	2027	0.436	885	0	1.4	0.8	3.360	A
	4	1346	336	409	1989	0.677	1360	1490	5.8	2.2	6.103	A
	5	0	0	1769	377	0.000	0	0	0.0	0.0	0.000	A
2	1	602	151	1130	1178	0.511	608	0	2.5	1.1	6.651	A
	2	789	197	1106	1288	0.613	803	632	5.2	1.7	7.870	A
	3			1013				897				
	4	1129	282	0	2471	0.457	1130	1013	1.3	0.9	2.828	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			939				532				
	2	840	210	0	2560	0.328	840	939	0.7	0.5	2.164	A
	3	739	185	840	2158	0.343	740	0	0.8	0.6	2.701	A
	4	1127	282	341	2035	0.554	1131	1240	2.2	1.3	4.172	A
	5	0	0	1471	510	0.000	0	0	0.0	0.0	0.000	A
2	1	504	126	940	1287	0.392	506	0	1.1	0.7	4.822	A
	2	661	165	920	1402	0.472	664	526	1.7	0.9	5.048	A
	3			840				745				
	4	939	235	0	2471	0.380	940	840	0.9	0.6	2.474	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.50	0.00	0.00	0.50	0.50			N/A	N/A
	3	0.55	0.55	1.06	1.49	1.54			N/A	N/A
	4	1.28	0.58	1.14	1.44	1.77			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.66	0.57	1.04	1.46	1.51			N/A	N/A
	2	0.90	0.57	1.03	1.44	1.49			N/A	N/A
	3									
	4	0.63	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.66	0.09	0.82	1.41	1.48			N/A	N/A
	3	0.80	0.07	0.79	1.57	1.58			N/A	N/A
	4	2.13	0.05	0.46	5.81	9.85			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.06	0.06	0.79	2.02	2.88			N/A	N/A
	2	1.57	0.05	0.49	4.02	6.36			N/A	N/A
	3									
	4	0.86	0.08	0.84	1.23	1.75			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.92	0.03	0.26	0.92	0.92			N/A	N/A
	3	1.42	0.03	0.27	1.42	1.42			N/A	N/A
	4	5.54	0.03	0.35	9.79	29.19			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	2.39	0.03	0.30	2.39	8.40			N/A	N/A
	2	4.83	0.04	0.37	11.20	26.30			N/A	N/A
	3									
	4	1.28	0.03	0.27	1.28	1.28			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.94	0.03	0.28	0.94	1.11			N/A	N/A
	3	1.45	0.03	0.28	1.45	1.47			N/A	N/A
	4	5.80	0.03	0.30	5.80	19.23			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	2.47	0.03	0.29	2.47	5.99			N/A	N/A
	2	5.21	0.03	0.32	5.93	24.48			N/A	N/A
	3									
	4	1.30	0.03	0.28	1.30	1.30			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.68	0.57	1.03	1.45	1.50			N/A	N/A
	3	0.83	0.38	1.02	1.48	1.54			N/A	N/A
	4	2.23	0.05	0.52	6.00	9.59			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.11	0.07	0.84	2.08	2.96			N/A	N/A
	2	1.67	0.05	0.46	4.40	7.17			N/A	N/A
	3									
	4	0.89	0.58	1.05	1.47	1.53			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.51	0.00	0.00	0.51	0.51			N/A	N/A
	3	0.56	0.05	0.53	1.38	1.49			N/A	N/A
	4	1.31	0.04	0.36	3.11	6.56			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.68	0.04	0.41	1.46	2.24			N/A	N/A
	2	0.93	0.03	0.33	1.93	4.59			N/A	N/A
	3									
	4	0.65	0.13	0.92	1.45	1.51			N/A	N/A

D2 - 2025 | Base | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	6.50	A
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	6.26	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.40	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2025	Base	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1254	100.000
	4		ONE HOUR	✓	1334	100.000
	5		ONE HOUR	✓	0	100.000
2	1		ONE HOUR	✓	642	100.000
	2		ONE HOUR	✓	781	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

Junction 2

	To				
From		1	2	3	4
	1	0	166	0	476
	2	0	0	204	577
	3	0	0	0	0
	4	0	601	531	0

Demand (PCU/hr)

Junction 1

		To				
From		1	2	3	4	5
	1	0	0	0	0	0
	2	216	0	0	846	0
	3	0	327	0	927	0
	4	519	815	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

		To			
From		1	2	3	4
	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

		To				
From		1	2	3	4	5
	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.45	2.59	0.8	1.7	A	966	1448
	3	0.72	6.85	2.6	4.4	A	1151	1726
	4	0.79	9.26	3.7	13.6	A	1224	1836
	5	0.00	0.00	0.0	~1	A	0	0
2	1	0.64	9.07	1.8	2.8	A	589	884
	2	0.67	8.64	2.0	3.2	A	717	1075
	3							
	4	0.51	3.05	1.1	1.5	A	1047	1571

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			856				549				
	2	789	197	0	2560	0.308	787	856	0.0	0.4	2.049	A
	3	944	236	787	2198	0.429	941	0	0.0	0.8	2.913	A
	4	1004	251	406	1992	0.504	1000	1323	0.0	1.0	3.697	A
	5	0	0	1406	540	0.000	0	0	0.0	0.0	0.000	A
2	1	483	121	854	1337	0.362	481	0	0.0	0.6	4.217	A
	2	588	147	757	1501	0.392	585	578	0.0	0.7	3.987	A
	3			789				554				
	4	856	214	0	2471	0.347	854	789	0.0	0.5	2.288	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1025				658				
	2	945	236	0	2560	0.369	944	1025	0.4	0.6	2.250	A
	3	1127	282	944	2079	0.542	1126	0	0.8	1.2	3.843	A
	4	1199	300	486	1938	0.619	1197	1584	1.0	1.6	4.947	A
	5	0	0	1682	416	0.000	0	0	0.0	0.0	0.000	A
2	1	577	144	1024	1239	0.466	576	0	0.6	0.9	5.444	A
	2	702	176	907	1410	0.498	701	693	0.7	1.0	5.156	A
	3			945				663				
	4	1025	256	0	2471	0.415	1024	945	0.5	0.7	2.558	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1251				803				
	2	1154	288	0	2560	0.451	1153	1251	0.6	0.8	2.582	A
	3	1381	345	1153	1921	0.719	1375	0	1.2	2.5	6.668	A
	4	1469	367	593	1866	0.787	1461	1935	1.6	3.6	8.903	A
	5	0	0	2054	250	0.000	0	0	0.0	0.0	0.000	A
2	1	707	177	1250	1109	0.637	703	0	0.9	1.7	8.837	A
	2	860	215	1108	1287	0.668	856	845	1.0	2.0	8.426	A
	3			1154				810				
	4	1251	313	0	2471	0.506	1250	1154	0.7	1.0	3.030	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1257				807				
	2	1159	290	0	2560	0.453	1159	1257	0.8	0.8	2.594	A
	3	1381	345	1159	1916	0.721	1380	0	2.5	2.6	6.850	A
	4	1469	367	596	1865	0.788	1468	1944	3.6	3.7	9.261	A
	5	0	0	2064	245	0.000	0	0	0.0	0.0	0.000	A
2	1	707	177	1257	1105	0.639	707	0	1.7	1.8	9.069	A
	2	860	215	1114	1283	0.670	860	850	2.0	2.0	8.644	A
	3			1159				814				
	4	1257	314	0	2471	0.509	1257	1159	1.0	1.1	3.050	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1033				664				
	2	952	238	0	2560	0.372	953	1033	0.8	0.6	2.263	A
	3	1127	282	953	2073	0.544	1133	0	2.6	1.2	3.929	A
	4	1199	300	489	1936	0.620	1207	1597	3.7	1.7	5.105	A
	5	0	0	1697	410	0.000	0	0	0.0	0.0	0.000	A
2	1	577	144	1034	1233	0.468	581	0	1.8	0.9	5.573	A
	2	702	176	916	1404	0.500	706	699	2.0	1.0	5.273	A
	3			952				670				
	4	1033	258	0	2471	0.418	1034	952	1.1	0.7	2.579	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			862				553				
	2	795	199	0	2560	0.310	795	862	0.6	0.5	2.062	A
	3	944	236	795	2192	0.431	946	0	1.2	0.8	2.951	A
	4	1004	251	408	1990	0.505	1007	1333	1.7	1.1	3.755	A
	5	0	0	1415	535	0.000	0	0	0.0	0.0	0.000	A
2	1	483	121	863	1332	0.363	485	0	0.9	0.6	4.277	A
	2	588	147	764	1498	0.393	589	583	1.0	0.7	4.041	A
	3			795				559				
	4	862	215	0	2471	0.349	863	795	0.7	0.6	2.303	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.45	0.00	0.00	0.45	0.45			N/A	N/A
	3	0.76	0.56	1.02	1.43	1.48			N/A	N/A
	4	1.03	0.56	1.02	1.43	1.48			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.57	0.55	1.01	1.41	1.46			N/A	N/A
	2	0.65	0.56	1.02	1.42	1.48			N/A	N/A
	3									
	4	0.54	0.54	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.59	0.08	0.77	1.37	1.44			N/A	N/A
	3	1.20	0.05	0.48	2.87	4.42			N/A	N/A
	4	1.64	0.05	0.47	4.28	6.93			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.87	0.07	0.79	1.43	1.84			N/A	N/A
	2	1.00	0.06	0.77	1.88	2.63			N/A	N/A
	3									
	4	0.73	0.08	0.82	1.43	1.51			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.82	0.03	0.26	0.82	0.82			N/A	N/A
	3	2.54	0.03	0.28	2.54	3.85			N/A	N/A
	4	3.61	0.03	0.30	3.61	13.62			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.72	0.03	0.27	1.72	2.18			N/A	N/A
	2	1.99	0.03	0.28	1.99	3.22			N/A	N/A
	3									
	4	1.05	0.03	0.26	1.05	1.05			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.83	0.03	0.27	0.83	1.67			N/A	N/A
	3	2.59	0.03	0.27	2.59	2.59			N/A	N/A
	4	3.70	0.03	0.28	3.70	4.51			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.75	0.03	0.27	1.75	2.81			N/A	N/A
	2	2.03	0.03	0.28	2.03	2.36			N/A	N/A
	3									
	4	1.06	0.03	0.27	1.06	1.06			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.60	0.56	1.01	1.41	1.46			N/A	N/A
	3	1.23	0.10	1.05	2.10	2.85			N/A	N/A
	4	1.69	0.06	0.90	4.00	5.84			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.89	0.09	0.88	1.32	1.74			N/A	N/A
	2	1.03	0.09	0.94	1.72	2.04			N/A	N/A
	3									
	4	0.74	0.57	1.03	1.44	1.49			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.46	0.00	0.00	0.46	0.46			N/A	N/A
	3	0.78	0.05	0.47	1.59	2.23			N/A	N/A
	4	1.05	0.04	0.40	2.63	4.42			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.58	0.04	0.44	1.25	1.25			N/A	N/A
	2	0.66	0.05	0.46	1.11	1.74			N/A	N/A
	3									
	4	0.55	0.55	1.03	1.44	1.49			N/A	N/A

Junctions 11	
ARCADY 11 - Roundabout Module	
Version: 11.1.1.2424 © Copyright TRL Software Limited, 2026	
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Filename: Junction 7 - Wrotham Road_A2 Linked Rbt - Sensitivity Calibrated.j11

Path: C:\Users\MatthewJohnson\Hub Transport Planning Ltd\Hub Transport Planning - General\Projects\T25512
Wrotham Road, Meopham\Modelling\Arcady

Report generation date: 27/05/2026 17:05:25

»D1 - 2025 | Base | AM
»D2 - 2025 | Base | PM
»D3 - 2026 | Base | AM
»D4 - 2026 | Base | PM
»D5 - 2032 | Reference Case | AM
»D6 - 2032 | Reference Case | PM
»D7 - 2032 | Reference Case + Committed | AM
»D8 - 2032 | Reference Case + Committed | PM
»D9 - 2032 | Reference Case + Committed + Site 1 | AM
»D10 - 2032 | Reference Case + Committed + Site 1 | PM
»D11 - 2032 | Reference Case + Committed + Site 1 + Site 2 | AM
»D12 - 2032 | Reference Case + Committed + Site 1 + Site 2 | PM
»D13 - 2042 | Local Plan | AM
»D14 - 2042 | Local Plan | PM
»D15 - 2042 | Local Plan + Committed | AM
»D16 - 2042 | Local Plan + Committed | PM
»D17 - 2042 | Local Plan + Committed + Site 1 | AM
»D18 - 2042 | Local Plan + Committed + Site 1 | PM
»D19 - 2042 | Local Plan + Committed + Site 1 + Site 2 | AM
»D20 - 2042 | Local Plan + Committed + Site 1 + Site 2 | PM

Summary of junction performance

	AM				PM			
	Set ID	Queue (PCU)	Delay (s)	RFC	Set ID	Queue (PCU)	Delay (s)	RFC
	2025 - Base							
Junction 1 - Arm 2	D1	0.9	2.77	0.47	D2	0.8	2.59	0.45
Junction 1 - Arm 3		2.5	8.64	0.71		6.9	18.98	0.88
Junction 1 - Arm 4		5.8	13.08	0.85		3.7	9.25	0.79
Junction 1 - Arm 5		0.0	0.00	0.00		0.0	0.00	0.00
Junction 2 - Arm 1		10.0	52.16	0.93		4.4	23.63	0.83
Junction 2 - Arm 2		5.1	19.90	0.84		2.0	8.62	0.67
Junction 2 - Arm 4		1.3	3.43	0.55		1.1	3.05	0.51
	2026 - Base							
Junction 1 - Arm 2	D3	0.9	2.79	0.48	D4	0.8	2.61	0.46
Junction 1 - Arm 3		2.7	9.04	0.72		7.8	21.32	0.90
Junction 1 - Arm 4		6.3	14.06	0.86		3.9	9.67	0.80
Junction 1 - Arm 5		0.0	0.00	0.00		0.0	0.00	0.00
Junction 2 - Arm 1		12.2	61.82	0.95		4.9	25.92	0.84
Junction 2 - Arm 2		5.6	21.78	0.86		2.1	8.95	0.68
Junction 2 - Arm 4		1.3	3.48	0.56		1.1	3.08	0.51
	2032 - Reference Case							
Junction 1 - Arm 2	D5	1.0	2.81	0.48	D6	0.9	2.63	0.46
Junction 1 - Arm 3		2.9	9.59	0.74		8.5	23.16	0.91
Junction 1 - Arm 4		7.0	15.55	0.88		4.1	10.05	0.80
Junction 1 - Arm 5		0.0	0.00	0.00		0.0	0.00	0.00
Junction 2 - Arm 1		15.6	76.21	0.98		5.2	27.73	0.85
Junction 2 - Arm 2		6.4	24.76	0.88		2.2	9.20	0.69
Junction 2 - Arm 4		1.4	3.54	0.57		1.1	3.10	0.52
	2032 - Reference Case + Committed							
Junction 1 - Arm 2	D7	1.0	2.83	0.49	D8	0.9	2.77	0.48
Junction 1 - Arm 3		3.4	10.89	0.77		22.3	55.17	0.99
Junction 1 - Arm 4		9.8	21.82	0.91		5.4	13.28	0.85
Junction 1 - Arm 5		1.5	46.33	0.60		1.3	36.30	0.57
Junction 2 - Arm 1		45.7	184.02	1.11		9.5	47.93	0.93
Junction 2 - Arm 2		8.6	33.32	0.91		2.5	10.51	0.72
Junction 2 - Arm 4		1.5	3.78	0.59		1.2	3.22	0.53
	2032 - Reference Case + Committed + Site 1							
Junction 1 - Arm 2	D9	1.0	2.89	0.50	D10	1.0	2.79	0.49
Junction 1 - Arm 3		3.8	11.92	0.79		42.1	91.04	1.04
Junction 1 - Arm 4		11.7	26.04	0.93		6.7	16.49	0.88
Junction 1 - Arm 5		1.9	59.76	0.67		1.8	53.66	0.67
Junction 2 - Arm 1		57.2	228.12	1.15		17.3	81.42	0.99
Junction 2 - Arm 2		21.1	70.26	0.99		3.0	11.94	0.75
Junction 2 - Arm 4		1.6	3.93	0.61		1.3	3.44	0.56
	2032 - Reference Case + Committed + Site 1 + Site 2							
Junction 1 - Arm 2	D11	1.1	2.94	0.51	D12	1.0	2.79	0.49
Junction 1 - Arm 3		3.9	12.15	0.79		48.6	102.36	1.05
Junction 1 - Arm 4		12.4	27.65	0.94		7.1	17.65	0.88
Junction 1 - Arm 5		2.0	65.51	0.69		2.1	61.29	0.70
Junction 2 - Arm 1		61.3	243.96	1.16		21.5	97.67	1.01
Junction 2 - Arm 2		28.3	88.19	1.02		3.2	12.42	0.77
Junction 2 - Arm 4		1.7	3.97	0.61		1.4	3.50	0.57
	2042 - Local Plan							
Junction 1 - Arm 2	D13	1.0	2.86	0.49	D14	0.9	2.76	0.49
Junction 1 - Arm 3		3.9	12.20	0.79		23.6	57.36	0.99
Junction 1 - Arm 4		13.0	27.85	0.94		6.0	14.23	0.86
Junction 1 - Arm 5		0.0	0.00	0.00		0.0	0.00	0.00
Junction 2 - Arm 1		46.0	187.09	1.11		11.5	57.37	0.95
Junction 2 - Arm 2		12.4	45.04	0.95		3.0	11.83	0.75
Junction 2 - Arm 4		1.6	3.84	0.60		1.2	3.30	0.55
	2042 - Local Plan + Committed							
Junction 1 - Arm 2	D15	1.0	2.84	0.49	D16	1.0	2.89	0.50
Junction 1 - Arm 3		4.5	13.61	0.81		63.3	130.12	1.07
Junction 1 - Arm 4		21.4	44.04	0.98		8.3	19.68	0.90

Junction 1 - Arm 5		3.0	99.35	0.80		2.1	62.97	0.71
Junction 2 - Arm 1		86.6	339.11	1.24		23.9	103.55	1.02
Junction 2 - Arm 2		16.8	59.50	0.97		3.4	13.40	0.78
Junction 2 - Arm 4		1.7	4.09	0.63		1.3	3.38	0.56
	2042 - Local Plan + Committed + Site 1							
Junction 1 - Arm 2	D17	1.1	2.97	0.51	D18	1.0	2.86	0.50
Junction 1 - Arm 3		4.8	14.45	0.83		90.2	177.72	1.11
Junction 1 - Arm 4		26.9	53.76	0.99		10.8	25.65	0.93
Junction 1 - Arm 5		4.1	135.50	0.88		3.6	108.44	0.84
Junction 2 - Arm 1		98.3	400.03	1.28		40.5	164.42	1.09
Junction 2 - Arm 2		43.1	124.79	1.06		4.0	15.12	0.81
Junction 2 - Arm 4		1.8	4.23	0.64		1.4	3.60	0.58
	2042 - Local Plan + Committed + Site 1 + Site 2							
Junction 1 - Arm 2	D19	1.1	2.96	0.51	D20	1.0	2.83	0.49
Junction 1 - Arm 3		4.9	14.63	0.83		92.8	181.35	1.12
Junction 1 - Arm 4		29.1	57.50	1.00		11.8	27.95	0.93
Junction 1 - Arm 5		4.6	144.59	0.91		4.3	130.47	0.89
Junction 2 - Arm 1		101.6	423.46	1.30		43.6	176.88	1.10
Junction 2 - Arm 2		54.4	150.88	1.08		3.6	14.12	0.79
Junction 2 - Arm 4		1.9	4.26	0.64		1.5	3.67	0.59

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

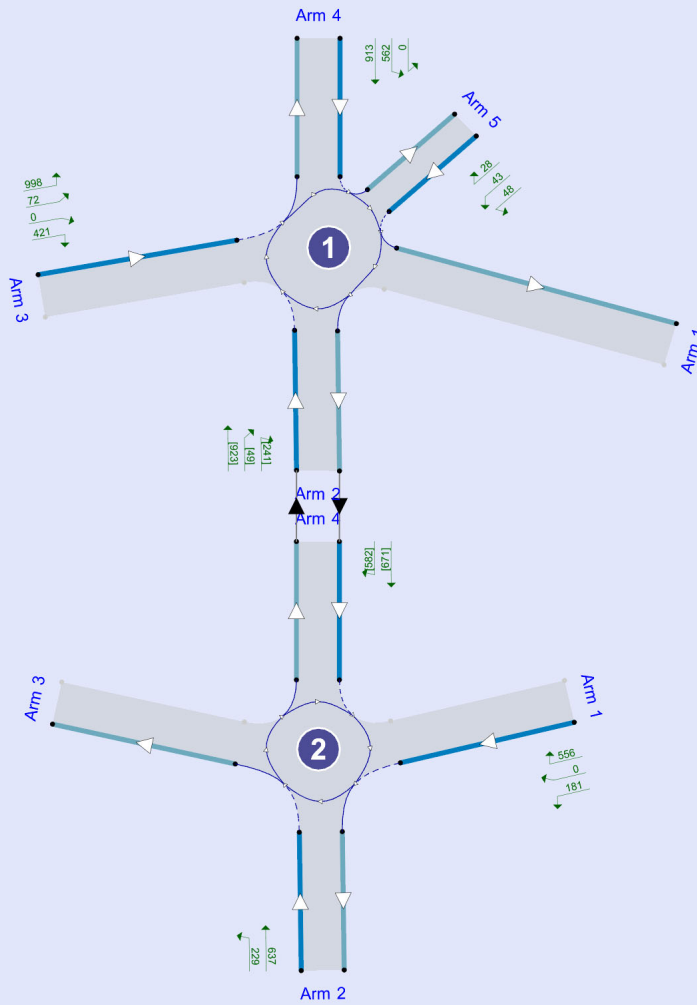
File summary

File Description

Title	
Location	Wrotham Road/A2 Southern Roundabout
Site number	7
Date	09/04/2026
Version	
Status	(new file)
Identifier	MJ
Client	Richborough
Jobnumber	T25512
Enumerator	AzureAD\MatthewJohnson
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)

The junction diagram reflects the last run of Junctions.

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
5.75	✓					0.85	36.00	20.00		

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2025	Base	AM	ONE HOUR	07:45	09:15	15	✓
D2	2025	Base	PM	ONE HOUR	16:45	18:15	15	✓
D3	2026	Base	AM	ONE HOUR	07:45	09:15	15	✓
D4	2026	Base	PM	ONE HOUR	16:45	18:15	15	✓
D5	2032	Reference Case	AM	ONE HOUR	07:45	09:15	15	✓
D6	2032	Reference Case	PM	ONE HOUR	16:45	18:15	15	✓
D7	2032	Reference Case + Committed	AM	ONE HOUR	07:45	09:15	15	✓
D8	2032	Reference Case + Committed	PM	ONE HOUR	16:45	18:15	15	✓
D9	2032	Reference Case + Committed + Site 1	AM	ONE HOUR	07:45	09:15	15	✓
D10	2032	Reference Case + Committed + Site 1	PM	ONE HOUR	16:45	18:15	15	✓
D11	2032	Reference Case + Committed + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15	✓
D12	2032	Reference Case + Committed + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15	✓
D13	2042	Local Plan	AM	ONE HOUR	07:45	09:15	15	✓
D14	2042	Local Plan	PM	ONE HOUR	16:45	18:15	15	✓
D15	2042	Local Plan + Committed	AM	ONE HOUR	07:45	09:15	15	✓
D16	2042	Local Plan + Committed	PM	ONE HOUR	16:45	18:15	15	✓
D17	2042	Local Plan + Committed + Site 1	AM	ONE HOUR	07:45	09:15	15	✓
D18	2042	Local Plan + Committed + Site 1	PM	ONE HOUR	16:45	18:15	15	✓
D19	2042	Local Plan + Committed + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15	✓
D20	2042	Local Plan + Committed + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	100.000	100.000

D1 - 2025 | Base | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	8.67	A
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	20.31	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	13.76	B

Arms

Arms

Junction	Arm	Name	Description	No give-way line
1	1	A2 (E) On-Slip		
	2	Wrotham Road S - Internal Link		
	3	A2 (W) Off-Slip		
	4	Wrotham Road N		
	5	Hotel access		
2	1	A2 (E) Off-Slip		
	2	Wrotham Road S		
	3	A2 (W) On-Slip		
	4	Wrotham Road N - Internal Link		

Roundabout Geometry

Junction	Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Entry only	Exit only
1	1								✓
	2	7.10	8.50	18.0	31.1	60.0	27.0		
	3	7.30	9.40	17.0	34.4	60.0	22.0	✓	
	4	4.80	8.30	22.3	43.1	60.0	24.0		
	5	3.10	6.10	5.1	13.0	60.0	42.0		
2	1	3.80	8.70	14.3	20.1	60.0	35.0	✓	
	2	4.20	8.40	12.8	25.5	60.0	22.0		
	3								✓
	4	7.20	8.30	15.0	20.5	60.0	28.0		

Slope / Intercept / Capacity

Arm Intercept Adjustments

Junction	Arm	Type	Reason	Direct intercept adjustment (PCU/hr)
1	1			
	2	None		
	3	Direct	Calibration	-350
	4	None		
	5	None		
2	1	Direct	Calbration	-250
	2	None		
	3			
	4	None		

Roundabout Slope and Intercept used in model

Junction	Arm	Final slope	Final intercept (PCU/hr)
1	1		
	2	0.713	2560
	3	0.760	2447
	4	0.667	2262
	5	0.447	1168
2	1	0.575	1578
	2	0.613	1966
	3		
	4	0.693	2471

The slope and intercept shown above include any corrections and adjustments.

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2025	Base	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	982	100.000
	4		ONE HOUR	✓	1497	100.000
	5		ONE HOUR	✓	0	100.000
2	1		ONE HOUR	✓	670	100.000
	2		ONE HOUR	✓	878	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

Junction 2

	To				
		1	2	3	4
From	1	0	151	0	519
	2	0	0	286	592
	3	0	0	0	0
	4	0	541	694	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	216	0	0	904	0
	3	0	237	0	745	0
	4	490	1007	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
		1	2	3	4
From	1	0	6	0	4
	2	0	0	3	3
	3	0	0	0	0
	4	0	3	7	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.47	2.77	0.9	1.5	A	1019	1528
	3	0.71	8.64	2.5	5.0	A	901	1352
	4	0.85	13.08	5.8	28.9	B	1374	2061
	5	0.00	0.00	0.0	~1	A	0	0
2	1	0.93	52.16	10.0	50.3	F	615	922
	2	0.84	19.90	5.1	25.2	C	806	1209
	3							
	4	0.55	3.43	1.3	1.7	A	1141	1711

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			932				527				
	2	831	208	0	2560	0.325	829	932	0.0	0.5	2.148	A
	3	739	185	829	1817	0.407	736	0	0.0	0.7	3.532	A
	4	1127	282	338	2037	0.553	1122	1228	0.0	1.3	4.082	A
	5	0	0	1460	515	0.000	0	0	0.0	0.0	0.000	A
2	1	504	126	930	1043	0.483	501	0	0.0	1.0	6.880	A
	2	661	165	910	1408	0.470	657	520	0.0	0.9	4.918	A
	3			831				737				
	4	932	233	0	2471	0.377	930	831	0.0	0.6	2.452	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1116				631				
	2	994	249	0	2560	0.388	994	1116	0.5	0.7	2.374	A
	3	883	221	994	1692	0.522	881	0	0.7	1.1	4.709	A
	4	1346	336	404	1992	0.675	1342	1471	1.3	2.1	5.749	A
	5	0	0	1747	387	0.000	0	0	0.0	0.0	0.000	A
2	1	602	151	1115	937	0.643	599	0	1.0	1.8	11.005	B
	2	789	197	1090	1297	0.608	787	623	0.9	1.6	7.223	A
	3			994				883				
	4	1116	279	0	2471	0.451	1115	994	0.6	0.9	2.790	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1359				765				
	2	1196	299	0	2560	0.467	1195	1359	0.7	0.9	2.724	A
	3	1081	270	1195	1539	0.703	1076	0	1.1	2.4	8.169	A
	4	1648	412	490	1935	0.852	1635	1781	2.1	5.5	11.994	B
	5	0	0	2125	218	0.000	0	0	0.0	0.0	0.000	A
2	1	738	184	1358	798	0.925	713	0	1.8	8.1	36.808	E
	2	967	242	1315	1160	0.834	954	755	1.6	4.6	17.142	C
	3			1196				1074				
	4	1359	340	0	2471	0.550	1358	1196	0.9	1.3	3.396	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1369				774				
	2	1216	304	0	2560	0.475	1216	1369	0.9	0.9	2.767	A
	3	1081	270	1216	1523	0.710	1081	0	2.4	2.5	8.636	A
	4	1648	412	495	1932	0.853	1647	1801	5.5	5.8	13.077	B
	5	0	0	2142	210	0.000	0	0	0.0	0.0	0.000	A
2	1	738	184	1369	791	0.932	730	0	8.1	10.0	52.156	F
	2	967	242	1335	1148	0.842	965	764	4.6	5.1	19.904	C
	3			1216				1083				
	4	1369	342	0	2471	0.554	1369	1216	1.3	1.3	3.434	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1129				644				
	2	1033	258	0	2560	0.403	1034	1129	0.9	0.7	2.440	A
	3	883	221	1034	1661	0.531	888	0	2.5	1.2	4.980	A
	4	1346	336	414	1986	0.678	1360	1508	5.8	2.2	6.128	A
	5	0	0	1774	375	0.000	0	0	0.0	0.0	0.000	A
2	1	602	151	1131	928	0.649	634	0	10.0	2.0	14.118	B
	2	789	197	1127	1275	0.619	803	638	5.1	1.7	8.069	A
	3			1033				897				
	4	1129	282	0	2471	0.457	1131	1033	1.3	0.9	2.830	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			940				533				
	2	842	210	0	2560	0.329	842	940	0.7	0.5	2.166	A
	3	739	185	842	1807	0.409	741	0	1.2	0.7	3.598	A
	4	1127	282	341	2034	0.554	1131	1242	2.2	1.3	4.175	A
	5	0	0	1472	510	0.000	0	0	0.0	0.0	0.000	A
2	1	504	126	940	1037	0.486	508	0	2.0	1.0	7.161	A
	2	661	165	922	1400	0.472	664	527	1.7	0.9	5.059	A
	3			842				745				
	4	940	235	0	2471	0.380	940	842	0.9	0.6	2.475	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.50	0.00	0.00	0.50	0.50			N/A	N/A
	3	0.72	0.58	1.06	1.49	1.54			N/A	N/A
	4	1.28	0.58	1.14	1.43	1.76			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.96	0.56	1.04	1.47	1.53			N/A	N/A
	2	0.90	0.57	1.03	1.44	1.49			N/A	N/A
	3									
	4	0.63	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.65	0.09	0.83	1.41	1.48			N/A	N/A
	3	1.15	0.06	0.66	2.51	3.63			N/A	N/A
	4	2.13	0.05	0.46	5.81	9.83			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.82	0.05	0.52	4.75	7.40			N/A	N/A
	2	1.57	0.05	0.50	4.00	6.25			N/A	N/A
	3									
	4	0.86	0.08	0.84	1.23	1.74			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.90	0.03	0.26	0.90	0.90			N/A	N/A
	3	2.44	0.03	0.29	2.44	5.00			N/A	N/A
	4	5.50	0.03	0.35	9.58	28.89			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	8.09	0.08	1.66	23.00	35.46			N/A	N/A
	2	4.63	0.04	0.36	10.23	25.20			N/A	N/A
	3									
	4	1.28	0.03	0.27	1.28	1.28			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.93	0.03	0.28	0.93	1.26			N/A	N/A
	3	2.54	0.03	0.29	2.54	2.94			N/A	N/A
	4	5.77	0.03	0.30	5.77	19.02			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	10.00	0.06	1.01	29.13	50.26			N/A	N/A
	2	5.09	0.03	0.32	5.46	23.54			N/A	N/A
	3									
	4	1.30	0.03	0.28	1.30	1.30			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.70	0.57	1.03	1.45	1.50			N/A	N/A
	3	1.22	0.09	1.05	2.08	2.84			N/A	N/A
	4	2.24	0.05	0.52	6.02	9.57			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	2.01	0.04	0.40	5.22	10.04			N/A	N/A
	2	1.71	0.05	0.49	4.48	7.12			N/A	N/A
	3									
	4	0.89	0.58	1.05	1.47	1.53			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.51	0.00	0.00	0.51	0.51			N/A	N/A
	3	0.74	0.05	0.46	1.50	2.10			N/A	N/A
	4	1.31	0.04	0.36	3.12	6.55			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.00	0.03	0.30	1.44	4.43			N/A	N/A
	2	0.93	0.03	0.33	1.98	4.59			N/A	N/A
	3									
	4	0.65	0.13	0.92	1.45	1.51			N/A	N/A

D2 - 2025 | Base | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	10.68	B
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	9.90	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	10.36	B

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2025	Base	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1254	100.000
	4		ONE HOUR	✓	1334	100.000
	5		ONE HOUR	✓	0	100.000
2	1		ONE HOUR	✓	642	100.000
	2		ONE HOUR	✓	781	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

Junction 2

	To				
From		1	2	3	4
	1	0	166	0	476
	2	0	0	204	577
	3	0	0	0	0
	4	0	601	531	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	216	0	0	846	0
	3	0	327	0	927	0
	4	519	815	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
		1	2	3	4
From	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.45	2.59	0.8	1.7	A	966	1448
	3	0.88	18.98	6.9	34.4	C	1151	1726
	4	0.79	9.25	3.7	13.4	A	1224	1836
	5	0.00	0.00	0.0	~1	A	0	0
2	1	0.83	23.63	4.4	22.1	C	589	884
	2	0.67	8.62	2.0	3.0	A	717	1075
	3							
	4	0.51	3.05	1.1	1.5	A	1047	1571

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			856				549				
	2	788	197	0	2560	0.308	787	856	0.0	0.4	2.048	A
	3	944	236	787	1849	0.511	940	0	0.0	1.1	4.021	A
	4	1004	251	405	1992	0.504	1000	1321	0.0	1.0	3.696	A
	5	0	0	1405	540	0.000	0	0	0.0	0.0	0.000	A
2	1	483	121	854	1087	0.445	480	0	0.0	0.8	5.932	A
	2	588	147	757	1502	0.391	585	578	0.0	0.6	3.984	A
	3			788				553				
	4	856	214	0	2471	0.346	854	788	0.0	0.5	2.288	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1024				657				
	2	944	236	0	2560	0.369	943	1024	0.4	0.6	2.248	A
	3	1127	282	943	1730	0.652	1124	0	1.1	1.9	6.028	A
	4	1199	300	485	1939	0.619	1197	1582	1.0	1.6	4.945	A
	5	0	0	1682	416	0.000	0	0	0.0	0.0	0.000	A
2	1	577	144	1024	990	0.583	575	0	0.8	1.4	8.676	A
	2	702	176	906	1410	0.498	701	692	0.6	1.0	5.151	A
	3			944				663				
	4	1024	256	0	2471	0.414	1024	944	0.5	0.7	2.557	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1248				802				
	2	1148	287	0	2560	0.449	1148	1248	0.6	0.8	2.572	A
	3	1381	345	1148	1575	0.877	1363	0	1.9	6.3	16.143	C
	4	1469	367	589	1869	0.786	1461	1922	1.6	3.6	8.844	A
	5	0	0	2050	252	0.000	0	0	0.0	0.0	0.000	A
2	1	707	177	1247	861	0.821	696	0	1.4	4.1	20.680	C
	2	860	215	1101	1291	0.666	856	842	1.0	2.0	8.346	A
	3			1148				808				
	4	1248	312	0	2471	0.505	1247	1148	0.7	1.0	3.023	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1256				807				
	2	1158	290	0	2560	0.452	1158	1256	0.8	0.8	2.592	A
	3	1381	345	1158	1567	0.881	1378	0	6.3	6.9	18.984	C
	4	1469	367	595	1865	0.787	1468	1941	3.6	3.7	9.247	A
	5	0	0	2063	246	0.000	0	0	0.0	0.0	0.000	A
2	1	707	177	1256	856	0.826	706	0	4.1	4.4	23.632	C
	2	860	215	1112	1284	0.670	860	849	2.0	2.0	8.620	A
	3			1158				814				
	4	1256	314	0	2471	0.508	1256	1158	1.0	1.1	3.049	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1037				665				
	2	958	240	0	2560	0.374	959	1037	0.8	0.6	2.271	A
	3	1127	282	959	1718	0.656	1147	0	6.9	2.0	6.648	A
	4	1199	300	494	1932	0.621	1207	1612	3.7	1.7	5.129	A
	5	0	0	1701	407	0.000	0	0	0.0	0.0	0.000	A
2	1	577	144	1038	981	0.588	589	0	4.4	1.5	9.485	A
	2	702	176	924	1400	0.502	706	703	2.0	1.0	5.309	A
	3			958				671				
	4	1037	259	0	2471	0.419	1038	958	1.1	0.7	2.586	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			862				554				
	2	796	199	0	2560	0.311	796	862	0.6	0.5	2.063	A
	3	944	236	796	1842	0.513	948	0	2.0	1.1	4.125	A
	4	1004	251	409	1989	0.505	1007	1335	1.7	1.1	3.757	A
	5	0	0	1416	535	0.000	0	0	0.0	0.0	0.000	A
2	1	483	121	863	1082	0.447	486	0	1.5	0.8	6.100	A
	2	588	147	765	1497	0.393	589	584	1.0	0.7	4.043	A
	3			796				559				
	4	862	216	0	2471	0.349	863	796	0.7	0.6	2.306	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.45	0.00	0.00	0.45	0.45			N/A	N/A
	3	1.05	0.56	1.04	1.47	1.53			N/A	N/A
	4	1.03	0.56	1.02	1.43	1.48			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.80	0.55	1.01	1.41	1.46			N/A	N/A
	2	0.65	0.56	1.02	1.42	1.48			N/A	N/A
	3									
	4	0.54	0.54	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.59	0.08	0.77	1.37	1.44			N/A	N/A
	3	1.87	0.04	0.43	5.03	8.69			N/A	N/A
	4	1.63	0.05	0.47	4.28	6.92			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.38	0.05	0.63	3.30	4.90			N/A	N/A
	2	1.00	0.06	0.78	1.87	2.61			N/A	N/A
	3									
	4	0.73	0.09	0.82	1.43	1.51			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.82	0.03	0.26	0.82	0.82			N/A	N/A
	3	6.32	0.04	0.39	15.64	34.36			N/A	N/A
	4	3.59	0.03	0.30	3.59	13.37			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	4.08	0.04	0.36	9.64	22.07			N/A	N/A
	2	1.98	0.03	0.28	1.98	3.03			N/A	N/A
	3									
	4	1.04	0.03	0.26	1.04	1.04			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.83	0.03	0.27	0.83	1.73			N/A	N/A
	3	6.91	0.03	0.33	9.12	33.75			N/A	N/A
	4	3.69	0.03	0.28	3.69	4.47			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	4.42	0.03	0.32	5.76	21.46			N/A	N/A
	2	2.03	0.03	0.28	2.03	2.37			N/A	N/A
	3									
	4	1.06	0.03	0.27	1.06	1.08			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.61	0.56	1.01	1.41	1.46			N/A	N/A
	3	1.99	0.05	0.45	5.37	8.99			N/A	N/A
	4	1.70	0.06	0.92	4.00	5.82			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.47	0.04	0.45	3.82	6.20			N/A	N/A
	2	1.04	0.09	0.96	1.72	2.03			N/A	N/A
	3									
	4	0.75	0.57	1.03	1.44	1.49			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.46	0.00	0.00	0.46	0.46			N/A	N/A
	3	1.08	0.03	0.32	2.08	5.49			N/A	N/A
	4	1.05	0.04	0.40	2.63	4.41			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.82	0.03	0.32	1.74	3.98			N/A	N/A
	2	0.66	0.05	0.46	1.09	1.73			N/A	N/A
	3									
	4	0.55	0.55	1.03	1.44	1.49			N/A	N/A

D3 - 2026 | Base | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	9.20	A
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	23.25	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	15.35	C

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2026	Base	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	993	100.000
	4		ONE HOUR	✓	1513	100.000
	5		ONE HOUR	✓	0	100.000
2	1		ONE HOUR	✓	678	100.000
	2		ONE HOUR	✓	887	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

Junction 2

	To				
From		1	2	3	4
	1	0	153	0	525
	2	0	0	289	598
	3	0	0	0	0
	4	0	547	701	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	218	0	0	914	0
	3	0	240	0	753	0
	4	495	1018	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
From		1	2	3	4
	1	0	6	0	4
	2	0	0	3	3
	3	0	0	0	0
	4	0	3	7	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.48	2.79	0.9	1.5	A	1030	1544
	3	0.72	9.04	2.7	6.1	A	911	1367
	4	0.86	14.06	6.3	31.9	B	1388	2083
	5	0.00	0.00	0.0	~1	A	0	0
2	1	0.95	61.82	12.2	56.1	F	622	933
	2	0.86	21.78	5.6	27.5	C	814	1221
	3							
	4	0.56	3.48	1.3	1.8	A	1154	1730

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			943				532				
	2	840	210	0	2560	0.328	838	943	0.0	0.5	2.159	A
	3	748	187	838	1810	0.413	745	0	0.0	0.7	3.579	A
	4	1139	285	341	2034	0.560	1134	1241	0.0	1.3	4.147	A
	5	0	0	1475	508	0.000	0	0	0.0	0.0	0.000	A
2	1	510	128	940	1037	0.492	506	0	0.0	1.0	7.031	A
	2	668	167	920	1402	0.476	664	526	0.0	0.9	5.003	A
	3			840				745				
	4	943	236	0	2471	0.381	940	840	0.0	0.6	2.469	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1128				637				
	2	1005	251	0	2560	0.392	1004	1128	0.5	0.7	2.390	A
	3	893	223	1004	1684	0.530	891	0	0.7	1.2	4.813	A
	4	1360	340	409	1989	0.684	1357	1486	1.3	2.2	5.900	A
	5	0	0	1765	379	0.000	0	0	0.0	0.0	0.000	A
2	1	610	152	1127	930	0.655	606	0	1.0	1.9	11.467	B
	2	797	199	1102	1290	0.618	795	631	0.9	1.6	7.440	A
	3			1005				892				
	4	1128	282	0	2471	0.456	1127	1005	0.6	0.9	2.816	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1374				772				
	2	1204	301	0	2560	0.470	1203	1374	0.7	0.9	2.741	A
	3	1093	273	1203	1533	0.713	1088	0	1.2	2.6	8.496	A
	4	1666	416	495	1932	0.862	1651	1796	2.2	5.9	12.734	B
	5	0	0	2146	209	0.000	0	0	0.0	0.0	0.000	A
2	1	746	187	1372	789	0.946	717	0	1.9	9.4	41.185	E
	2	977	244	1326	1153	0.847	963	763	1.6	5.0	18.342	C
	3			1204				1084				
	4	1374	343	0	2471	0.556	1372	1204	0.9	1.3	3.434	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1384				781				
	2	1226	307	0	2560	0.479	1226	1384	0.9	0.9	2.788	A
	3	1093	273	1226	1515	0.722	1093	0	2.6	2.7	9.036	A
	4	1666	416	500	1928	0.864	1665	1819	5.9	6.3	14.062	B
	5	0	0	2165	200	0.000	0	0	0.0	0.0	0.000	A
2	1	746	187	1384	782	0.954	735	0	9.4	12.2	61.817	F
	2	977	244	1347	1140	0.857	974	773	5.0	5.6	21.781	C
	3			1226				1095				
	4	1384	346	0	2471	0.560	1384	1226	1.3	1.3	3.482	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1143				653				
	2	1051	263	0	2560	0.410	1052	1143	0.9	0.7	2.468	A
	3	893	223	1052	1648	0.542	898	0	2.7	1.3	5.142	A
	4	1360	340	420	1982	0.686	1376	1530	6.3	2.3	6.348	A
	5	0	0	1796	365	0.000	0	0	0.0	0.0	0.000	A
2	1	610	152	1145	920	0.663	650	0	12.2	2.1	15.858	C
	2	797	199	1146	1263	0.631	813	648	5.6	1.8	8.494	A
	3			1051				908				
	4	1143	286	0	2471	0.462	1145	1051	1.3	0.9	2.857	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			950				538				
	2	851	213	0	2560	0.332	852	950	0.7	0.5	2.179	A
	3	748	187	852	1799	0.415	750	0	1.3	0.8	3.649	A
	4	1139	285	345	2032	0.561	1143	1256	2.3	1.3	4.246	A
	5	0	0	1488	503	0.000	0	0	0.0	0.0	0.000	A
2	1	510	128	951	1031	0.495	515	0	2.1	1.0	7.342	A
	2	668	167	933	1394	0.479	671	533	1.8	1.0	5.156	A
	3			851				753				
	4	950	238	0	2471	0.384	951	851	0.9	0.7	2.492	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.50	0.00	0.00	0.50	0.50			N/A	N/A
	3	0.74	0.58	1.06	1.49	1.54			N/A	N/A
	4	1.31	0.59	1.18	1.59	1.84			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.00	0.54	1.05	1.50	1.56			N/A	N/A
	2	0.93	0.57	1.03	1.44	1.49			N/A	N/A
	3									
	4	0.65	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.66	0.09	0.83	1.41	1.48			N/A	N/A
	3	1.19	0.06	0.63	2.67	3.89			N/A	N/A
	4	2.21	0.05	0.46	6.04	10.27			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.92	0.05	0.52	5.05	7.98			N/A	N/A
	2	1.63	0.05	0.49	4.20	6.67			N/A	N/A
	3									
	4	0.88	0.08	0.84	1.34	1.82			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.91	0.03	0.26	0.91	0.91			N/A	N/A
	3	2.56	0.03	0.30	2.56	6.14			N/A	N/A
	4	5.92	0.04	0.36	11.67	31.93			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	9.38	0.11	3.01	25.75	37.85			N/A	N/A
	2	5.03	0.04	0.38	12.06	27.31			N/A	N/A
	3									
	4	1.31	0.03	0.27	1.31	1.31			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.95	0.03	0.28	0.95	1.12			N/A	N/A
	3	2.69	0.03	0.29	2.69	3.44			N/A	N/A
	4	6.25	0.03	0.31	6.25	23.40			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	12.18	0.08	2.01	35.45	56.14			N/A	N/A
	2	5.60	0.03	0.33	7.59	27.50			N/A	N/A
	3									
	4	1.33	0.03	0.28	1.33	1.33			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.72	0.57	1.03	1.45	1.50			N/A	N/A
	3	1.27	0.09	1.05	2.30	3.06			N/A	N/A
	4	2.33	0.05	0.51	6.32	10.25			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	2.14	0.04	0.39	5.54	10.94			N/A	N/A
	2	1.81	0.05	0.48	4.80	7.77			N/A	N/A
	3									
	4	0.91	0.57	1.05	1.47	1.53			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.52	0.00	0.00	0.52	0.52			N/A	N/A
	3	0.76	0.05	0.45	1.62	2.38			N/A	N/A
	4	1.35	0.04	0.35	3.12	6.83			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.04	0.03	0.30	1.28	4.32			N/A	N/A
	2	0.96	0.03	0.33	1.93	4.76			N/A	N/A
	3									
	4	0.66	0.13	0.92	1.45	1.51			N/A	N/A

D4 - 2026 | Base | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	11.64	B
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	10.59	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	11.21	B

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2026	Base	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1267	100.000
	4		ONE HOUR	✓	1347	100.000
	5		ONE HOUR	✓	0	100.000
2	1		ONE HOUR	✓	649	100.000
	2		ONE HOUR	✓	789	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

Junction 2

	To				
From		1	2	3	4
	1	0	168	0	481
	2	0	0	206	583
	3	0	0	0	0
	4	0	607	536	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	218	0	0	855	0
	3	0	330	0	937	0
	4	524	823	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
		1	2	3	4
From	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.46	2.61	0.8	1.6	A	976	1463
	3	0.90	21.32	7.8	41.0	C	1163	1744
	4	0.80	9.67	3.9	15.1	A	1236	1854
	5	0.00	0.00	0.0	~1	A	0	0
2	1	0.84	25.92	4.9	25.0	D	596	893
	2	0.68	8.95	2.1	3.8	A	724	1086
	3							
	4	0.51	3.08	1.1	1.5	A	1057	1586

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			864				554				
	2	797	199	0	2560	0.311	795	864	0.0	0.5	2.058	A
	3	954	238	795	1843	0.518	950	0	0.0	1.1	4.091	A
	4	1014	254	409	1989	0.510	1010	1336	0.0	1.1	3.742	A
	5	0	0	1419	534	0.000	0	0	0.0	0.0	0.000	A
2	1	489	122	862	1082	0.451	485	0	0.0	0.8	6.029	A
	2	594	149	764	1497	0.397	591	583	0.0	0.7	4.031	A
	3			797				559				
	4	864	216	0	2471	0.350	862	797	0.0	0.6	2.299	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1034				664				
	2	954	238	0	2560	0.372	953	1034	0.5	0.6	2.262	A
	3	1139	285	953	1723	0.661	1136	0	1.1	2.0	6.218	A
	4	1211	303	489	1936	0.626	1208	1599	1.1	1.7	5.043	A
	5	0	0	1698	409	0.000	0	0	0.0	0.0	0.000	A
2	1	583	146	1033	984	0.593	581	0	0.8	1.4	8.925	A
	2	709	177	915	1405	0.505	708	699	0.7	1.0	5.245	A
	3			954				669				
	4	1034	259	0	2471	0.418	1033	954	0.6	0.7	2.575	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1259				809				
	2	1159	290	0	2560	0.453	1159	1259	0.6	0.8	2.592	A
	3	1395	349	1159	1566	0.891	1375	0	2.0	7.0	17.581	C
	4	1483	371	593	1866	0.795	1475	1940	1.7	3.8	9.206	A
	5	0	0	2068	243	0.000	0	0	0.0	0.0	0.000	A
2	1	715	179	1258	855	0.836	703	0	1.4	4.4	22.195	C
	2	869	217	1110	1285	0.676	865	850	1.0	2.1	8.627	A
	3			1159				816				
	4	1259	315	0	2471	0.509	1258	1159	0.7	1.1	3.050	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1268				814				
	2	1170	293	0	2560	0.457	1170	1268	0.8	0.8	2.614	A
	3	1395	349	1170	1558	0.896	1392	0	7.0	7.8	21.317	C
	4	1483	371	600	1862	0.797	1483	1962	3.8	3.9	9.675	A
	5	0	0	2083	237	0.000	0	0	0.0	0.0	0.000	A
2	1	715	179	1268	849	0.842	713	0	4.4	4.9	25.923	D
	2	869	217	1123	1277	0.680	868	858	2.1	2.1	8.948	A
	3			1170				821				
	4	1268	317	0	2471	0.513	1268	1170	1.1	1.1	3.079	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1048				672				
	2	970	242	0	2560	0.379	970	1048	0.8	0.6	2.289	A
	3	1139	285	970	1709	0.666	1162	0	7.8	2.1	6.979	A
	4	1211	303	500	1929	0.628	1219	1633	3.9	1.8	5.248	A
	5	0	0	1719	399	0.000	0	0	0.0	0.0	0.000	A
2	1	583	146	1049	975	0.598	597	0	4.9	1.5	9.889	A
	2	709	177	934	1393	0.509	714	712	2.1	1.1	5.424	A
	3			970				678				
	4	1048	262	0	2471	0.424	1049	970	1.1	0.8	2.608	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			871				559				
	2	804	201	0	2560	0.314	805	871	0.6	0.5	2.073	A
	3	954	238	805	1835	0.520	958	0	2.1	1.1	4.202	A
	4	1014	254	413	1987	0.510	1017	1350	1.8	1.1	3.803	A
	5	0	0	1430	529	0.000	0	0	0.0	0.0	0.000	A
2	1	489	122	871	1077	0.454	491	0	1.5	0.8	6.209	A
	2	594	149	773	1492	0.398	596	590	1.1	0.7	4.092	A
	3			804				564				
	4	871	218	0	2471	0.352	871	804	0.8	0.6	2.318	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.45	0.00	0.00	0.45	0.45			N/A	N/A
	3	1.08	0.55	1.06	1.43	1.43			N/A	N/A
	4	1.05	0.56	1.02	1.43	1.48			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.82	0.55	1.01	1.41	1.46			N/A	N/A
	2	0.66	0.56	1.02	1.42	1.48			N/A	N/A
	3									
	4	0.55	0.55	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.60	0.08	0.78	1.37	1.44			N/A	N/A
	3	1.95	0.04	0.43	5.26	9.12			N/A	N/A
	4	1.68	0.05	0.46	4.45	7.21			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.43	0.05	0.60	3.50	5.24			N/A	N/A
	2	1.03	0.06	0.77	1.95	2.77			N/A	N/A
	3									
	4	0.74	0.08	0.82	1.44	1.52			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.83	0.03	0.26	0.83	0.83			N/A	N/A
	3	7.01	0.04	0.42	18.78	37.99			N/A	N/A
	4	3.77	0.03	0.30	3.77	15.09			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	4.45	0.04	0.38	11.31	23.98			N/A	N/A
	2	2.06	0.03	0.28	2.06	3.80			N/A	N/A
	3									
	4	1.06	0.03	0.26	1.06	1.06			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.85	0.03	0.27	0.85	1.62			N/A	N/A
	3	7.80	0.03	0.34	13.47	40.99			N/A	N/A
	4	3.89	0.03	0.28	3.89	5.57			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	4.87	0.03	0.33	7.79	25.03			N/A	N/A
	2	2.12	0.03	0.28	2.12	2.64			N/A	N/A
	3									
	4	1.08	0.03	0.27	1.08	1.08			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.62	0.56	1.01	1.41	1.46			N/A	N/A
	3	2.08	0.04	0.44	5.67	9.70			N/A	N/A
	4	1.75	0.06	0.88	4.23	6.19			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.54	0.04	0.43	4.01	6.71			N/A	N/A
	2	1.07	0.09	0.95	1.81	2.33			N/A	N/A
	3									
	4	0.76	0.57	1.03	1.44	1.49			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.46	0.00	0.00	0.46	0.46			N/A	N/A
	3	1.11	0.03	0.32	1.97	5.65			N/A	N/A
	4	1.07	0.04	0.39	2.71	4.67			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.84	0.03	0.32	1.68	4.13			N/A	N/A
	2	0.68	0.05	0.45	1.24	1.84			N/A	N/A
	3									
	4	0.56	0.56	1.03	1.44	1.49			N/A	N/A

D5 - 2032 | Reference Case | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	9.98	A
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	27.67	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	17.72	C

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2032	Reference Case	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1007	100.000
	4		ONE HOUR	✓	1534	100.000
	5		ONE HOUR	✓	0	100.000
2	1		ONE HOUR	✓	687	100.000
	2		ONE HOUR	✓	900	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

		To				
Junction 2	From		1	2	3	4
		1	0	155	0	532
		2	0	0	293	607
		3	0	0	0	0
		4	0	555	712	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	221	0	0	927	0
	3	0	243	0	764	0
	4	502	1032	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
From		1	2	3	4
	1	0	6	0	4
	2	0	0	3	3
	3	0	0	0	0
	4	0	3	7	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.48	2.81	1.0	1.5	A	1044	1566
	3	0.74	9.59	2.9	7.8	A	924	1386
	4	0.88	15.55	7.0	35.9	C	1408	2111
	5	0.00	0.00	0.0	~1	A	0	0
2	1	0.98	76.21	15.6	62.4	F	630	946
	2	0.88	24.76	6.4	34.0	C	826	1239
	3							
	4	0.57	3.54	1.4	1.9	A	1169	1754

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			955				540				
	2	852	213	0	2560	0.333	850	955	0.0	0.5	2.172	A
	3	758	190	850	1801	0.421	755	0	0.0	0.8	3.645	A
	4	1155	289	346	2031	0.569	1149	1259	0.0	1.4	4.233	A
	5	0	0	1495	500	0.000	0	0	0.0	0.0	0.000	A
2	1	517	129	953	1030	0.502	513	0	0.0	1.0	7.214	A
	2	678	169	933	1394	0.486	674	533	0.0	1.0	5.122	A
	3			852				755				
	4	955	239	0	2471	0.387	953	852	0.0	0.7	2.490	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1143				646				
	2	1019	255	0	2560	0.398	1018	1143	0.5	0.7	2.411	A
	3	905	226	1018	1673	0.541	903	0	0.8	1.2	4.957	A
	4	1379	345	414	1986	0.694	1375	1507	1.4	2.3	6.111	A
	5	0	0	1789	368	0.000	0	0	0.0	0.0	0.000	A
2	1	618	154	1142	921	0.670	614	0	1.0	2.0	12.058	B
	2	809	202	1117	1281	0.632	806	639	1.0	1.7	7.757	A
	3			1019				904				
	4	1143	286	0	2471	0.463	1142	1019	0.7	0.9	2.848	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1391				781				
	2	1215	304	0	2560	0.475	1214	1391	0.7	0.9	2.763	A
	3	1109	277	1214	1524	0.727	1103	0	1.2	2.7	8.948	A
	4	1689	422	500	1929	0.876	1672	1817	2.3	6.5	13.809	B
	5	0	0	2172	197	0.000	0	0	0.0	0.0	0.000	A
2	1	756	189	1389	779	0.971	720	0	2.0	11.2	47.092	E
	2	991	248	1338	1145	0.865	975	771	1.7	5.7	20.169	C
	3			1215				1098				
	4	1391	348	0	2471	0.563	1389	1215	0.9	1.3	3.493	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1402				791				
	2	1238	310	0	2560	0.484	1238	1402	0.9	1.0	2.814	A
	3	1109	277	1238	1506	0.736	1108	0	2.7	2.9	9.589	A
	4	1689	422	506	1925	0.878	1687	1841	6.5	7.0	15.550	C
	5	0	0	2193	188	0.000	0	0	0.0	0.0	0.000	A
2	1	756	189	1402	772	0.980	739	0	11.2	15.6	76.213	F
	2	991	248	1360	1132	0.875	988	781	5.7	6.4	24.761	C
	3			1238				1110				
	4	1402	351	0	2471	0.567	1402	1238	1.3	1.4	3.542	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1160				665				
	2	1077	269	0	2560	0.421	1078	1160	1.0	0.8	2.513	A
	3	905	226	1078	1628	0.556	911	0	2.9	1.3	5.384	A
	4	1379	345	427	1977	0.698	1397	1562	7.0	2.5	6.673	A
	5	0	0	1825	352	0.000	0	0	0.0	0.0	0.000	A
2	1	618	154	1162	910	0.679	671	0	15.6	2.3	19.003	C
	2	809	202	1172	1247	0.649	827	660	6.4	2.0	9.183	A
	3			1077				922				
	4	1160	290	0	2471	0.469	1162	1077	1.4	0.9	2.894	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			963				546				
	2	864	216	0	2560	0.337	865	963	0.8	0.5	2.197	A
	3	758	190	865	1790	0.424	760	0	1.3	0.8	3.723	A
	4	1155	289	350	2029	0.569	1159	1275	2.5	1.4	4.340	A
	5	0	0	1509	493	0.000	0	0	0.0	0.0	0.000	A
2	1	517	129	964	1024	0.505	522	0	2.3	1.1	7.569	A
	2	678	169	946	1386	0.489	681	540	2.0	1.0	5.294	A
	3			864				764				
	4	963	241	0	2471	0.390	964	864	0.9	0.7	2.516	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.51	0.00	0.00	0.51	0.51			N/A	N/A
	3	0.77	0.58	1.06	1.49	1.54			N/A	N/A
	4	1.36	0.59	1.24	1.72	1.91			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.04	0.45	1.06	1.51	1.51			N/A	N/A
	2	0.96	0.57	1.03	1.44	1.50			N/A	N/A
	3									
	4	0.66	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.68	0.09	0.84	1.41	1.48			N/A	N/A
	3	1.24	0.05	0.59	2.86	4.18			N/A	N/A
	4	2.32	0.05	0.46	6.35	10.89			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	2.04	0.05	0.51	5.43	8.64			N/A	N/A
	2	1.73	0.05	0.49	4.53	7.18			N/A	N/A
	3									
	4	0.90	0.07	0.83	1.46	1.90			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.93	0.03	0.26	0.93	0.93			N/A	N/A
	3	2.74	0.03	0.30	2.74	7.79			N/A	N/A
	4	6.54	0.04	0.38	14.70	35.87			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	11.22	0.19	5.16	29.01	40.62			N/A	N/A
	2	5.65	0.04	0.41	14.87	30.54			N/A	N/A
	3									
	4	1.34	0.03	0.27	1.34	1.34			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.96	0.03	0.28	0.96	1.50			N/A	N/A
	3	2.89	0.03	0.29	2.89	4.23			N/A	N/A
	4	6.98	0.03	0.32	6.98	29.98			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	15.61	0.15	5.67	42.85	62.39			N/A	N/A
	2	6.43	0.03	0.35	11.47	33.99			N/A	N/A
	3									
	4	1.37	0.03	0.28	1.37	1.37			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.75	0.57	1.03	1.45	1.50			N/A	N/A
	3	1.35	0.09	1.06	2.63	3.51			N/A	N/A
	4	2.46	0.05	0.49	6.75	11.12			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	2.32	0.04	0.39	5.93	12.04			N/A	N/A
	2	1.95	0.05	0.47	5.23	8.65			N/A	N/A
	3									
	4	0.94	0.57	1.05	1.47	1.53			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.53	0.53	1.03	1.45	1.50			N/A	N/A
	3	0.79	0.04	0.44	1.75	2.70			N/A	N/A
	4	1.39	0.03	0.35	3.08	7.12			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.08	0.03	0.30	1.08	4.11			N/A	N/A
	2	1.00	0.03	0.32	1.85	5.00			N/A	N/A
	3									
	4	0.68	0.13	0.92	1.45	1.51			N/A	N/A

D6 - 2032 | Reference Case | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	12.42	B
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	11.12	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	11.88	B

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2032	Reference Case	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1276	100.000
	4		ONE HOUR	✓	1357	100.000
	5		ONE HOUR	✓	0	100.000
2	1		ONE HOUR	✓	653	100.000
	2		ONE HOUR	✓	795	100.000
	3					
	4	✓				

Origin-Destination Data

		Demand (PCU/hr)				
Junction 2	From	To				
			1	2	3	4
		1	0	169	0	484
		2	0	0	208	587
		3	0	0	0	0
		4	0	612	540	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	220	0	0	861	0
	3	0	333	0	943	0
	4	528	829	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
		1	2	3	4
From	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.46	2.63	0.9	1.6	A	982	1473
	3	0.91	23.16	8.5	46.2	C	1171	1756
	4	0.80	10.05	4.1	16.5	B	1245	1868
	5	0.00	0.00	0.0	~1	A	0	0
2	1	0.85	27.73	5.2	27.7	D	599	899
	2	0.69	9.20	2.2	4.4	A	730	1094
	3							
	4	0.52	3.10	1.1	1.5	A	1066	1598

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			871				559				
	2	802	200	0	2560	0.313	800	871	0.0	0.5	2.064	A
	3	961	240	800	1839	0.522	956	0	0.0	1.1	4.140	A
	4	1022	255	412	1987	0.514	1017	1344	0.0	1.1	3.777	A
	5	0	0	1430	529	0.000	0	0	0.0	0.0	0.000	A
2	1	492	123	869	1078	0.456	488	0	0.0	0.8	6.097	A
	2	599	150	769	1494	0.401	596	588	0.0	0.7	4.064	A
	3			802				563				
	4	871	218	0	2471	0.352	869	802	0.0	0.6	2.309	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1042				669				
	2	960	240	0	2560	0.375	959	1042	0.5	0.6	2.271	A
	3	1147	287	959	1718	0.668	1143	0	1.1	2.0	6.352	A
	4	1220	305	494	1933	0.631	1217	1609	1.1	1.7	5.124	A
	5	0	0	1711	403	0.000	0	0	0.0	0.0	0.000	A
2	1	587	147	1041	979	0.599	584	0	0.8	1.5	9.107	A
	2	715	179	921	1401	0.510	713	704	0.7	1.0	5.313	A
	3			960				675				
	4	1042	261	0	2471	0.422	1041	960	0.6	0.7	2.589	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1268				815				
	2	1166	292	0	2560	0.456	1165	1268	0.6	0.8	2.605	A
	3	1405	351	1165	1561	0.900	1383	0	2.0	7.5	18.657	C
	4	1494	374	598	1863	0.802	1485	1950	1.7	3.9	9.518	A
	5	0	0	2083	237	0.000	0	0	0.0	0.0	0.000	A
2	1	719	180	1267	850	0.846	706	0	1.5	4.7	23.343	C
	2	875	219	1117	1281	0.683	871	856	1.0	2.1	8.842	A
	3			1166				822				
	4	1268	317	0	2471	0.513	1267	1166	0.7	1.1	3.073	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1278				821				
	2	1177	294	0	2560	0.460	1177	1278	0.8	0.9	2.628	A
	3	1405	351	1177	1552	0.905	1401	0	7.5	8.5	23.161	C
	4	1494	374	605	1858	0.804	1494	1973	3.9	4.1	10.049	B
	5	0	0	2099	230	0.000	0	0	0.0	0.0	0.000	A
2	1	719	180	1278	843	0.853	717	0	4.7	5.2	27.727	D
	2	875	219	1130	1273	0.688	875	864	2.1	2.2	9.196	A
	3			1177				828				
	4	1278	320	0	2471	0.517	1278	1177	1.1	1.1	3.104	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1057				677				
	2	977	244	0	2560	0.382	978	1057	0.9	0.6	2.298	A
	3	1147	287	978	1704	0.673	1173	0	8.5	2.1	7.230	A
	4	1220	305	505	1925	0.634	1229	1645	4.1	1.8	5.351	A
	5	0	0	1734	393	0.000	0	0	0.0	0.0	0.000	A
2	1	587	147	1058	970	0.605	602	0	5.2	1.6	10.201	B
	2	715	179	942	1388	0.515	719	718	2.2	1.1	5.507	A
	3			977				684				
	4	1057	264	0	2471	0.428	1058	977	1.1	0.8	2.623	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			878				563				
	2	810	202	0	2560	0.316	810	878	0.6	0.5	2.078	A
	3	961	240	810	1831	0.525	965	0	2.1	1.1	4.257	A
	4	1022	255	417	1984	0.515	1024	1358	1.8	1.1	3.845	A
	5	0	0	1441	524	0.000	0	0	0.0	0.0	0.000	A
2	1	492	123	878	1073	0.458	495	0	1.6	0.9	6.287	A
	2	599	150	778	1489	0.402	600	595	1.1	0.7	4.130	A
	3			810				569				
	4	878	219	0	2471	0.355	878	810	0.8	0.6	2.328	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.46	0.00	0.00	0.46	0.46			N/A	N/A
	3	1.11	0.55	1.08	1.12	1.58			N/A	N/A
	4	1.07	0.56	1.02	1.43	1.48			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.83	0.55	1.01	1.41	1.46			N/A	N/A
	2	0.67	0.56	1.02	1.42	1.48			N/A	N/A
	3									
	4	0.56	0.56	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.60	0.08	0.78	1.37	1.44			N/A	N/A
	3	2.01	0.04	0.43	5.43	9.45			N/A	N/A
	4	1.72	0.05	0.46	4.58	7.48			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.47	0.05	0.58	3.64	5.50			N/A	N/A
	2	1.05	0.06	0.76	2.01	2.88			N/A	N/A
	3									
	4	0.75	0.08	0.82	1.45	1.53			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.84	0.03	0.26	0.84	0.84			N/A	N/A
	3	7.55	0.05	0.45	20.94	40.22			N/A	N/A
	4	3.93	0.03	0.30	3.93	16.54			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	4.72	0.04	0.40	12.52	25.34			N/A	N/A
	2	2.13	0.03	0.28	2.13	4.39			N/A	N/A
	3									
	4	1.08	0.03	0.26	1.08	1.08			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.86	0.03	0.27	0.86	1.55			N/A	N/A
	3	8.51	0.04	0.36	17.06	46.21			N/A	N/A
	4	4.07	0.03	0.28	4.07	6.64			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	5.23	0.03	0.34	9.47	27.69			N/A	N/A
	2	2.20	0.03	0.28	2.20	2.86			N/A	N/A
	3									
	4	1.10	0.03	0.27	1.10	1.10			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.63	0.56	1.01	1.41	1.46			N/A	N/A
	3	2.15	0.04	0.43	5.85	10.14			N/A	N/A
	4	1.80	0.06	0.85	4.44	6.57			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.58	0.04	0.43	4.18	7.04			N/A	N/A
	2	1.09	0.08	0.95	1.88	2.51			N/A	N/A
	3									
	4	0.77	0.57	1.03	1.44	1.49			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.47	0.00	0.00	0.47	0.47			N/A	N/A
	3	1.14	0.03	0.31	1.88	5.72			N/A	N/A
	4	1.09	0.04	0.39	2.76	4.86			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.86	0.03	0.31	1.64	4.26			N/A	N/A
	2	0.69	0.04	0.45	1.33	1.92			N/A	N/A
	3									
	4	0.57	0.57	1.03	1.44	1.49			N/A	N/A

D7 - 2032 | Reference Case + Committed | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	13.77	B
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	57.40	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	32.64	D

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2032	Reference Case + Committed	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1045	100.000
	4		ONE HOUR	✓	1553	100.000
	5		ONE HOUR	✓	109	100.000
2	1		ONE HOUR	✓	737	100.000
	2		ONE HOUR	✓	901	100.000
	3					
	4	✓				

Origin-Destination Data

		Demand (PCU/hr)				
Junction 2	From	To				
			1	2	3	4
		1	0	155	0	582
		2	0	0	288	613
		3	0	0	0	0
		4	0	557	773	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	217	0	0	929	57
	3	0	243	0	769	33
	4	495	1030	0	0	28
	5	45	64	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
From		1	2	3	4
	1	0	6	0	4
	2	0	0	3	3
	3	0	0	0	0
	4	0	3	7	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.49	2.83	1.0	1.5	A	1095	1643
	3	0.77	10.89	3.4	12.4	B	959	1438
	4	0.91	21.82	9.8	53.1	C	1425	2138
	5	0.60	46.33	1.5	7.1	E	100	150
2	1	1.11	184.02	45.7	93.6	F	676	1014
	2	0.91	33.32	8.6	47.0	D	827	1240
	3							
	4	0.59	3.78	1.5	2.3	A	1226	1839

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1001				565				
	2	893	223	0	2560	0.349	891	1001	0.0	0.6	2.222	A
	3	787	197	891	1770	0.444	783	0	0.0	0.8	3.856	A
	4	1169	292	410	1989	0.588	1163	1264	0.0	1.5	4.516	A
	5	82	21	1485	504	0.163	81	88	0.0	0.2	8.853	A
2	1	555	139	999	1004	0.553	550	0	0.0	1.3	8.190	A
	2	678	170	1015	1344	0.505	674	534	0.0	1.0	5.503	A
	3			893				796				
	4	1001	250	0	2471	0.405	999	893	0.0	0.7	2.569	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1198				676				
	2	1067	267	0	2560	0.417	1066	1198	0.6	0.7	2.485	A
	3	939	235	1066	1637	0.574	937	0	0.8	1.4	5.439	A
	4	1396	349	490	1935	0.722	1391	1513	1.5	2.6	6.847	A
	5	98	24	1777	374	0.262	97	105	0.2	0.4	13.535	B
2	1	663	166	1197	890	0.744	656	0	1.3	2.9	15.668	C
	2	810	202	1214	1222	0.663	806	639	1.0	2.0	8.847	A
	3			1067				953				
	4	1198	299	0	2471	0.485	1197	1067	0.7	1.0	2.970	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1452				807				
	2	1231	308	0	2560	0.481	1230	1452	0.7	0.9	2.791	A
	3	1151	288	1230	1512	0.761	1143	0	1.4	3.2	10.150	B
	4	1710	427	582	1874	0.913	1685	1791	2.6	8.8	17.936	C
	5	120	30	2142	210	0.571	116	125	0.4	1.3	38.667	E
2	1	811	203	1450	745	1.090	722	0	2.9	25.2	85.902	F
	2	992	248	1413	1100	0.902	971	759	2.0	7.3	25.452	D
	3			1231				1153				
	4	1452	363	0	2471	0.587	1450	1231	1.0	1.5	3.701	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1469				818				
	2	1247	312	0	2560	0.487	1247	1469	0.9	1.0	2.829	A
	3	1151	288	1247	1499	0.768	1150	0	3.2	3.4	10.891	B
	4	1710	427	588	1870	0.914	1706	1809	8.8	9.8	21.824	C
	5	120	30	2168	199	0.603	119	126	1.3	1.5	46.325	E
2	1	811	203	1469	734	1.106	729	0	25.2	45.7	184.022	F
	2	992	248	1430	1089	0.911	987	768	7.3	8.6	33.322	D
	3			1247				1169				
	4	1469	367	0	2471	0.594	1469	1247	1.5	1.5	3.779	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1224				716				
	2	1221	305	0	2560	0.477	1222	1224	1.0	0.9	2.777	A
	3	939	235	1222	1519	0.619	946	0	3.4	1.8	6.742	A
	4	1396	349	528	1910	0.731	1424	1639	9.8	2.9	8.130	A
	5	98	24	1838	346	0.283	102	113	1.5	0.4	15.609	C
2	1	663	166	1226	873	0.759	829	0	45.7	4.2	102.971	F
	2	810	202	1367	1128	0.718	833	688	8.6	2.7	13.506	B
	3			1221				979				
	4	1224	306	0	2471	0.495	1226	1221	1.5	1.0	3.049	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1012				574				
	2	913	228	0	2560	0.357	915	1012	0.9	0.6	2.259	A
	3	787	197	915	1752	0.449	790	0	1.8	0.9	3.985	A
	4	1169	292	417	1984	0.589	1175	1288	2.9	1.5	4.670	A
	5	82	21	1502	496	0.165	83	89	0.4	0.2	9.088	A
2	1	555	139	1013	996	0.557	566	0	4.2	1.3	8.971	A
	2	678	170	1036	1331	0.510	685	543	2.7	1.1	5.800	A
	3			913				808				
	4	1012	253	0	2471	0.409	1013	913	1.0	0.7	2.602	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.55	0.55	1.03	1.44	1.50			N/A	N/A
	3	0.84	0.58	1.06	1.48	1.54			N/A	N/A
	4	1.47	0.58	1.36	1.90	2.05			N/A	N/A
	5	0.20	0.00	0.00	0.20	0.20			N/A	N/A
2	1	1.26	0.12	1.12	2.05	2.76			N/A	N/A
	2	1.04	0.56	1.05	1.49	1.54			N/A	N/A
	3									
	4	0.71	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.73	0.10	0.87	1.43	1.50			N/A	N/A
	3	1.41	0.05	0.53	3.44	5.22			N/A	N/A
	4	2.63	0.05	0.46	7.25	12.48			N/A	N/A
	5	0.36	0.00	0.00	0.36	0.36			N/A	N/A
2	1	2.85	0.05	0.60	7.88	12.69			N/A	N/A
	2	1.97	0.05	0.49	5.24	8.43			N/A	N/A
	3									
	4	0.98	0.07	0.82	1.79	2.32			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.95	0.03	0.26	0.95	0.95			N/A	N/A
	3	3.22	0.03	0.31	3.22	12.40			N/A	N/A
	4	8.81	0.05	0.48	24.71	46.71			N/A	N/A
	5	1.26	0.03	0.30	1.52	5.46			N/A	N/A
2	1	25.18	4.89	21.21	46.63	56.26			N/A	N/A
	2	7.30	0.05	0.69	21.12	36.65			N/A	N/A
	3									
	4	1.48	0.03	0.27	1.48	1.48			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.98	0.03	0.27	0.98	1.03			N/A	N/A
	3	3.39	0.03	0.29	3.39	6.40			N/A	N/A
	4	9.77	0.04	0.37	19.57	53.08			N/A	N/A
	5	1.46	0.04	0.38	3.70	7.11			N/A	N/A
2	1	45.70	12.68	40.54	79.42	93.65			N/A	N/A
	2	8.59	0.04	0.41	21.86	47.01			N/A	N/A
	3									
	4	1.53	0.03	0.28	1.53	1.53			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.95	0.57	1.03	1.44	1.50			N/A	N/A
	3	1.75	0.09	1.25	3.68	4.97			N/A	N/A
	4	2.92	0.05	0.47	8.12	13.92			N/A	N/A
	5	0.42	0.04	0.37	1.22	1.41			N/A	N/A
2	1	4.16	0.04	0.44	11.40	21.52			N/A	N/A
	2	2.75	0.06	0.73	7.49	11.81			N/A	N/A
	3									
	4	1.04	0.57	1.07	1.51	1.56			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.57	0.57	1.03	1.44	1.50			N/A	N/A
	3	0.87	0.04	0.40	2.04	3.52			N/A	N/A
	4	1.51	0.03	0.33	2.79	7.82			N/A	N/A
	5	0.21	0.03	0.29	0.63	1.11			N/A	N/A
2	1	1.34	0.03	0.28	1.34	2.58			N/A	N/A
	2	1.08	0.03	0.31	1.48	5.22			N/A	N/A
	3									
	4	0.73	0.13	0.92	1.45	1.52			N/A	N/A

D8 - 2032 | Reference Case + Committed | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	25.20	D
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	16.83	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	21.80	C

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2032	Reference Case + Committed	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1338	100.000
	4		ONE HOUR	✓	1368	100.000
	5		ONE HOUR	✓	119	100.000
2	1		ONE HOUR	✓	691	100.000
	2		ONE HOUR	✓	803	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

Junction 2	From	To				
		1	2	3	4	
		1	0	165	0	526
		2	0	0	208	595
		3	0	0	0	0
		4	0	613	549	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	220	0	0	857	49
	3	0	326	0	940	72
	4	530	838	0	0	0
	5	48	43	0	28	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
		1	2	3	4
From	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.48	2.77	0.9	1.5	A	1028	1542
	3	0.99	55.17	22.3	90.4	F	1228	1842
	4	0.85	13.28	5.4	26.2	B	1255	1883
	5	0.57	36.30	1.3	6.3	E	109	164
2	1	0.93	47.93	9.5	48.8	E	634	951
	2	0.72	10.51	2.5	7.2	B	737	1105
	3							
	4	0.53	3.22	1.2	1.5	A	1107	1660

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			925				597				
	2	839	210	21	2545	0.330	837	904	0.0	0.5	2.126	A
	3	1007	252	858	1795	0.561	1002	0	0.0	1.3	4.598	A
	4	1030	257	498	1930	0.534	1025	1362	0.0	1.2	4.048	A
	5	90	22	1433	527	0.170	89	90	0.0	0.2	8.315	A
2	1	520	130	902	1059	0.491	516	0	0.0	1.0	6.615	A
	2	605	151	819	1464	0.413	602	599	0.0	0.7	4.236	A
	3			839				582				
	4	904	226	0	2471	0.366	902	839	0.0	0.6	2.358	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1107				714				
	2	1004	251	25	2543	0.395	1003	1082	0.5	0.7	2.359	A
	3	1203	301	1028	1665	0.722	1198	0	1.3	2.6	7.758	A
	4	1230	307	596	1865	0.660	1227	1630	1.2	1.9	5.739	A
	5	107	27	1715	401	0.266	106	108	0.2	0.4	12.352	B
2	1	621	155	1081	957	0.649	618	0	1.0	1.8	10.570	B
	2	722	180	981	1364	0.529	720	718	0.7	1.1	5.670	A
	3			1004				697				
	4	1082	270	0	2471	0.438	1081	1004	0.6	0.8	2.663	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1337				867				
	2	1213	303	30	2539	0.478	1212	1307	0.7	0.9	2.735	A
	3	1473	368	1242	1503	0.980	1421	0	2.6	15.7	32.931	D
	4	1506	377	712	1787	0.843	1494	1950	1.9	5.1	12.058	B
	5	131	33	2077	240	0.547	128	129	0.4	1.1	31.887	D
2	1	761	190	1306	827	0.920	737	0	1.8	7.6	33.982	D
	2	884	221	1178	1243	0.711	879	865	1.1	2.4	9.914	A
	3			1213				845				
	4	1307	327	0	2471	0.529	1306	1213	0.8	1.1	3.175	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1352				876				
	2	1228	307	31	2538	0.484	1228	1322	0.9	0.9	2.773	A
	3	1473	368	1259	1490	0.989	1447	0	15.7	22.3	55.170	F
	4	1506	377	724	1779	0.847	1505	1982	5.1	5.4	13.282	B
	5	131	33	2097	230	0.569	131	131	1.1	1.3	36.304	E
2	1	761	190	1321	818	0.930	753	0	7.6	9.5	47.933	E
	2	884	221	1198	1231	0.718	884	877	2.4	2.5	10.507	B
	3			1228				853				
	4	1322	330	0	2471	0.535	1321	1228	1.1	1.2	3.221	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1139				728				
	2	1034	259	26	2542	0.407	1035	1113	0.9	0.7	2.413	A
	3	1203	301	1061	1640	0.733	1280	0	22.3	2.9	12.389	B
	4	1230	307	628	1843	0.667	1243	1713	5.4	2.1	6.260	A
	5	107	27	1757	382	0.280	110	114	1.3	0.4	13.592	B
2	1	621	155	1115	937	0.663	651	0	9.5	2.1	13.858	B
	2	722	180	1022	1339	0.539	727	743	2.5	1.2	6.033	A
	3			1034				715				
	4	1113	278	0	2471	0.450	1115	1034	1.2	0.8	2.732	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			934				603				
	2	849	212	21	2545	0.333	849	913	0.7	0.5	2.143	A
	3	1007	252	871	1785	0.564	1014	0	2.9	1.3	4.791	A
	4	1030	257	504	1926	0.535	1034	1380	2.1	1.2	4.141	A
	5	90	22	1446	521	0.172	90	92	0.4	0.2	8.490	A
2	1	520	130	914	1053	0.494	524	0	2.1	1.0	6.902	A
	2	605	151	831	1456	0.415	606	607	1.2	0.7	4.320	A
	3			849				589				
	4	913	228	0	2471	0.369	914	849	0.8	0.6	2.381	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.49	0.00	0.00	0.49	0.49			N/A	N/A
	3	1.29	0.23	1.19	1.88	2.27			N/A	N/A
	4	1.16	0.57	1.06	1.21	1.21			N/A	N/A
	5	0.21	0.00	0.00	0.21	0.21			N/A	N/A
2	1	0.96	0.54	1.01	1.43	1.48			N/A	N/A
	2	0.71	0.56	1.02	1.42	1.48			N/A	N/A
	3									
	4	0.59	0.57	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.66	0.09	0.80	1.38	1.45			N/A	N/A
	3	2.57	0.04	0.43	7.06	12.60			N/A	N/A
	4	1.94	0.05	0.45	5.24	8.80			N/A	N/A
	5	0.36	0.00	0.00	0.36	0.36			N/A	N/A
2	1	1.80	0.05	0.50	4.73	7.43			N/A	N/A
	2	1.13	0.06	0.72	2.41	3.42			N/A	N/A
	3									
	4	0.80	0.08	0.82	1.40	1.40			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.92	0.03	0.26	0.92	0.92			N/A	N/A
	3	15.73	0.19	6.95	41.64	58.92			N/A	N/A
	4	5.05	0.03	0.33	8.37	26.20			N/A	N/A
	5	1.14	0.03	0.29	1.14	4.00			N/A	N/A
2	1	7.65	0.07	1.20	21.98	34.64			N/A	N/A
	2	2.41	0.03	0.29	2.41	7.21			N/A	N/A
	3									
	4	1.15	0.03	0.26	1.15	1.15			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.94	0.03	0.27	0.94	1.46			N/A	N/A
	3	22.30	0.16	8.04	61.85	90.41			N/A	N/A
	4	5.35	0.03	0.30	5.35	17.53			N/A	N/A
	5	1.26	0.03	0.35	2.99	6.33			N/A	N/A
2	1	9.48	0.05	0.68	27.45	48.83			N/A	N/A
	2	2.52	0.03	0.28	2.52	4.36			N/A	N/A
	3									
	4	1.18	0.03	0.27	1.18	1.18			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.70	0.56	1.01	1.41	1.46			N/A	N/A
	3	2.91	0.04	0.40	7.78	15.06			N/A	N/A
	4	2.09	0.05	0.61	5.55	8.66			N/A	N/A
	5	0.40	0.04	0.35	1.16	1.35			N/A	N/A
2	1	2.05	0.04	0.40	5.51	10.13			N/A	N/A
	2	1.21	0.08	0.95	2.32	3.06			N/A	N/A
	3									
	4	0.85	0.57	1.03	1.44	1.49			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.51	0.51	1.01	1.41	1.46			N/A	N/A
	3	1.34	0.03	0.29	1.34	5.33			N/A	N/A
	4	1.19	0.04	0.35	2.85	5.87			N/A	N/A
	5	0.21	0.03	0.28	0.54	1.04			N/A	N/A
2	1	1.00	0.03	0.29	1.48	4.51			N/A	N/A
	2	0.73	0.04	0.42	1.59	2.43			N/A	N/A
	3									
	4	0.61	0.57	1.03	1.44	1.49			N/A	N/A

D9 - 2032 | Reference Case + Committed + Site 1 | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	16.01	C
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	78.60	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	43.51	E

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2032	Reference Case + Committed + Site 1	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1073	100.000
	4		ONE HOUR	✓	1562	100.000
	5		ONE HOUR	✓	109	100.000
2	1		ONE HOUR	✓	741	100.000
	2		ONE HOUR	✓	994	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)	
Junction 2	
	To
	1234
	From
	101590582
	200352642
	30000
	405937730

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	227	0	0	948	57
	3	0	271	0	769	33
	4	495	1039	0	0	28
	5	45	64	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
From		1	2	3	4
	1	0	6	0	4
	2	0	0	3	3
	3	0	0	0	0
	4	0	3	7	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.50	2.89	1.0	1.5	A	1122	1683
	3	0.79	11.92	3.8	15.7	B	985	1477
	4	0.93	26.04	11.7	64.3	D	1433	2150
	5	0.67	59.76	1.9	9.0	F	100	150
2	1	1.15	228.12	57.2	104.6	F	680	1020
	2	0.99	70.26	21.1	79.6	F	912	1368
	3							
	4	0.61	3.93	1.6	2.7	A	1260	1890

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1029				572				
	2	914	229	0	2560	0.357	912	1029	0.0	0.6	2.251	A
	3	808	202	912	1754	0.461	804	0	0.0	0.9	4.005	A
	4	1176	294	438	1970	0.597	1170	1278	0.0	1.5	4.657	A
	5	82	21	1520	488	0.168	81	88	0.0	0.2	9.191	A
2	1	558	139	1026	988	0.565	553	0	0.0	1.3	8.531	A
	2	748	187	1015	1344	0.557	743	564	0.0	1.3	6.124	A
	3			914				844				
	4	1029	257	0	2471	0.416	1026	914	0.0	0.7	2.615	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1231				684				
	2	1091	273	0	2560	0.426	1090	1231	0.6	0.8	2.526	A
	3	965	241	1090	1618	0.596	962	0	0.9	1.5	5.793	A
	4	1404	351	524	1913	0.734	1399	1528	1.5	2.8	7.237	A
	5	98	24	1818	355	0.276	97	105	0.2	0.4	14.495	B
2	1	666	167	1230	871	0.765	659	0	1.3	3.1	17.147	C
	2	894	223	1213	1222	0.731	888	675	1.3	2.7	10.919	B
	3			1091				1010				
	4	1231	308	0	2471	0.498	1230	1091	0.7	1.0	3.047	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1488				810				
	2	1231	308	0	2560	0.481	1230	1488	0.8	1.0	2.792	A
	3	1181	295	1230	1512	0.781	1173	0	1.5	3.6	11.008	B
	4	1720	430	616	1851	0.929	1690	1787	2.8	10.2	20.349	C
	5	120	30	2183	192	0.624	115	123	0.4	1.5	46.524	E
2	1	816	204	1486	724	1.127	707	0	3.1	30.4	101.456	F
	2	1094	274	1396	1110	0.986	1046	797	2.7	14.8	41.788	E
	3			1231				1211				
	4	1488	372	0	2471	0.602	1486	1231	1.0	1.6	3.836	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1508				822				
	2	1247	312	0	2560	0.487	1247	1508	1.0	1.0	2.828	A
	3	1181	295	1247	1499	0.788	1181	0	3.6	3.8	11.920	B
	4	1720	430	622	1847	0.931	1714	1806	10.2	11.7	26.040	D
	5	120	30	2211	179	0.669	119	125	1.5	1.9	59.764	F
2	1	816	204	1508	711	1.147	709	0	30.4	57.2	228.119	F
	2	1094	274	1410	1101	0.994	1069	807	14.8	21.1	70.264	F
	3			1247				1232				
	4	1508	377	0	2471	0.610	1508	1247	1.6	1.6	3.929	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1263				734				
	2	1277	319	0	2560	0.499	1276	1263	1.0	1.0	2.893	A
	3	965	241	1276	1477	0.653	972	0	3.8	2.0	7.657	A
	4	1404	351	570	1882	0.746	1438	1679	11.7	3.2	9.062	A
	5	98	24	1893	322	0.305	104	115	1.9	0.5	17.597	C
2	1	666	167	1265	851	0.783	836	0	57.2	14.8	160.469	F
	2	894	223	1372	1125	0.795	961	728	21.1	4.4	29.241	D
	3			1277				1056				
	4	1263	316	0	2471	0.511	1265	1277	1.6	1.1	3.146	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1040				588				
	2	971	243	0	2560	0.379	973	1040	1.0	0.6	2.344	A
	3	808	202	973	1708	0.473	812	0	2.0	1.0	4.284	A
	4	1176	294	454	1959	0.600	1182	1331	3.2	1.6	4.872	A
	5	82	21	1545	477	0.172	83	91	0.5	0.2	9.542	A
2	1	558	139	1042	979	0.570	611	0	14.8	1.4	11.749	B
	2	748	187	1070	1310	0.571	760	583	4.4	1.4	6.886	A
	3			971				859				
	4	1040	260	0	2471	0.421	1042	971	1.1	0.8	2.651	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.57	0.57	1.03	1.45	1.50			N/A	N/A
	3	0.90	0.58	1.06	1.48	1.54			N/A	N/A
	4	1.52	0.57	1.41	1.99	2.39			N/A	N/A
	5	0.21	0.00	0.00	0.21	0.21			N/A	N/A
2	1	1.32	0.09	1.08	2.47	3.17			N/A	N/A
	2	1.27	0.27	1.19	1.84	2.05			N/A	N/A
	3									
	4	0.75	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.76	0.11	0.88	1.44	1.51			N/A	N/A
	3	1.54	0.05	0.52	3.89	6.00			N/A	N/A
	4	2.80	0.05	0.47	7.77	13.32			N/A	N/A
	5	0.39	0.03	0.28	0.51	0.86			N/A	N/A
2	1	3.14	0.06	0.71	8.73	14.01			N/A	N/A
	2	2.68	0.05	0.51	7.40	12.05			N/A	N/A
	3									
	4	1.04	0.07	0.80	1.95	2.72			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.95	0.03	0.26	0.95	0.95			N/A	N/A
	3	3.59	0.03	0.32	3.59	15.68			N/A	N/A
	4	10.23	0.06	0.99	29.82	51.69			N/A	N/A
	5	1.52	0.03	0.32	2.62	7.78			N/A	N/A
2	1	30.39	8.44	26.86	52.35	61.64			N/A	N/A
	2	14.77	0.26	7.58	37.41	51.57			N/A	N/A
	3									
	4	1.58	0.03	0.27	1.58	1.58			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.98	0.03	0.27	0.98	0.98			N/A	N/A
	3	3.80	0.03	0.30	3.80	8.69			N/A	N/A
	4	11.67	0.04	0.42	29.00	64.26			N/A	N/A
	5	1.85	0.04	0.41	4.95	8.97			N/A	N/A
2	1	57.16	21.78	52.82	91.18	104.62			N/A	N/A
	2	21.13	0.22	9.42	56.21	79.59			N/A	N/A
	3									
	4	1.63	0.03	0.27	1.63	1.63			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	1.02	0.57	1.03	1.45	1.50			N/A	N/A
	3	2.04	0.10	1.35	4.47	6.13			N/A	N/A
	4	3.17	0.05	0.47	8.85	15.37			N/A	N/A
	5	0.47	0.04	0.39	1.33	1.50			N/A	N/A
2	1	14.81	1.12	11.06	30.60	38.49			N/A	N/A
	2	4.39	0.06	1.01	12.40	19.79			N/A	N/A
	3									
	4	1.11	0.56	1.09	1.51	1.51			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.63	0.57	1.03	1.45	1.50			N/A	N/A
	3	0.96	0.04	0.39	2.34	4.15			N/A	N/A
	4	1.59	0.03	0.32	2.63	8.06			N/A	N/A
	5	0.22	0.03	0.30	0.77	1.25			N/A	N/A
2	1	1.42	0.03	0.28	1.42	2.02			N/A	N/A
	2	1.40	0.03	0.30	1.40	5.59			N/A	N/A
	3									
	4	0.77	0.12	0.91	1.46	1.53			N/A	N/A

D10 - 2032 | Reference Case + Committed + Site 1 | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	39.54	E
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	25.24	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	33.65	D

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2032	Reference Case + Committed + Site 1	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1398	100.000
	4		ONE HOUR	✓	1386	100.000
	5		ONE HOUR	✓	119	100.000
2	1		ONE HOUR	✓	700	100.000
	2		ONE HOUR	✓	851	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)	
Junction 2	
	To
	1234
	From
	101740526
	200241610
	30000
	406905490

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	225	0	0	867	49
	3	0	386	0	940	72
	4	530	856	0	0	0
	5	48	43	0	28	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
		1	2	3	4
From	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.49	2.79	1.0	1.5	A	1041	1562
	3	1.04	91.04	42.1	112.2	F	1283	1924
	4	0.88	16.49	6.7	33.9	C	1272	1908
	5	0.67	53.66	1.8	9.1	F	109	164
2	1	0.99	81.42	17.3	64.3	F	642	963
	2	0.75	11.94	3.0	11.3	B	781	1171
	3							
	4	0.56	3.44	1.3	1.9	A	1178	1767

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			983				600				
	2	850	212	21	2545	0.334	848	962	0.0	0.5	2.138	A
	3	1052	263	869	1787	0.589	1047	0	0.0	1.4	4.920	A
	4	1043	261	547	1898	0.550	1039	1369	0.0	1.2	4.261	A
	5	90	22	1495	500	0.179	89	90	0.0	0.2	8.869	A
2	1	527	132	960	1026	0.514	523	0	0.0	1.0	7.130	A
	2	641	160	818	1464	0.438	638	664	0.0	0.8	4.412	A
	3			850				606				
	4	962	241	0	2471	0.389	960	850	0.0	0.7	2.446	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1176				718				
	2	1017	254	25	2543	0.400	1016	1151	0.5	0.7	2.379	A
	3	1257	314	1041	1656	0.759	1250	0	1.4	3.1	8.902	A
	4	1246	311	654	1826	0.682	1242	1638	1.2	2.1	6.262	A
	5	107	27	1788	369	0.290	106	108	0.2	0.4	13.878	B
2	1	629	157	1150	917	0.686	625	0	1.0	2.1	12.217	B
	2	765	191	979	1365	0.560	763	796	0.8	1.3	6.059	A
	3			1017				726				
	4	1151	288	0	2471	0.466	1150	1017	0.7	0.9	2.801	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1409				868				
	2	1217	304	30	2539	0.479	1216	1379	0.7	0.9	2.745	A
	3	1539	385	1246	1500	1.026	1451	0	3.1	25.1	45.657	E
	4	1526	382	767	1750	0.872	1510	1929	2.1	6.2	14.431	B
	5	131	33	2150	207	0.634	126	127	0.4	1.6	43.388	E
2	1	771	193	1377	786	0.980	732	0	2.1	11.9	48.271	E
	2	937	234	1160	1255	0.747	931	949	1.3	2.9	11.091	B
	3			1217				874				
	4	1379	345	0	2471	0.558	1377	1217	0.9	1.3	3.380	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1425				879				
	2	1234	309	31	2539	0.486	1234	1394	0.9	1.0	2.785	A
	3	1539	385	1265	1486	1.036	1471	0	25.1	42.1	91.042	F
	4	1526	382	778	1743	0.876	1524	1958	6.2	6.7	16.489	C
	5	131	33	2174	196	0.668	130	129	1.6	1.8	53.660	F
2	1	771	193	1394	776	0.993	749	0	11.9	17.3	81.424	F
	2	937	234	1181	1242	0.754	936	963	2.9	3.0	11.935	B
	3			1234				883				
	4	1394	349	0	2471	0.564	1394	1234	1.3	1.3	3.437	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1236				739				
	2	1070	267	26	2542	0.421	1071	1210	1.0	0.7	2.473	A
	3	1257	314	1097	1613	0.779	1410	0	42.1	3.9	30.390	D
	4	1246	311	719	1783	0.699	1263	1788	6.7	2.4	7.303	A
	5	107	27	1863	335	0.319	112	119	1.8	0.5	16.775	C
2	1	629	157	1211	882	0.714	688	0	17.3	2.7	23.677	C
	2	765	191	1053	1320	0.580	771	845	3.0	1.4	6.749	A
	3			1070				755				
	4	1210	302	0	2471	0.489	1211	1070	1.3	1.0	2.943	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			995				607				
	2	862	215	21	2545	0.339	863	973	0.7	0.5	2.160	A
	3	1052	263	884	1775	0.593	1062	0	3.9	1.5	5.210	A
	4	1043	261	555	1892	0.552	1048	1391	2.4	1.3	4.386	A
	5	90	22	1511	492	0.182	91	92	0.5	0.2	9.119	A
2	1	527	132	975	1018	0.518	533	0	2.7	1.1	7.563	A
	2	641	160	833	1455	0.440	643	675	1.4	0.8	4.521	A
	3			862				614				
	4	973	243	0	2471	0.394	975	862	1.0	0.7	2.477	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.50	0.00	0.00	0.50	0.50			N/A	N/A
	3	1.44	0.14	1.23	2.50	3.05			N/A	N/A
	4	1.24	0.57	1.13	1.47	1.76			N/A	N/A
	5	0.22	0.00	0.00	0.22	0.22			N/A	N/A
2	1	1.04	0.34	1.05	1.29	1.67			N/A	N/A
	2	0.78	0.56	1.02	1.42	1.47			N/A	N/A
	3									
	4	0.65	0.57	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.67	0.09	0.81	1.38	1.45			N/A	N/A
	3	3.09	0.05	0.45	8.61	15.13			N/A	N/A
	4	2.15	0.05	0.45	5.87	9.93			N/A	N/A
	5	0.41	0.03	0.30	0.91	1.21			N/A	N/A
2	1	2.11	0.05	0.50	5.67	9.02			N/A	N/A
	2	1.28	0.05	0.65	2.93	4.34			N/A	N/A
	3									
	4	0.89	0.07	0.83	1.45	1.87			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.92	0.03	0.26	0.92	0.92			N/A	N/A
	3	25.10	1.47	18.12	54.68	69.94			N/A	N/A
	4	6.18	0.04	0.37	14.08	33.88			N/A	N/A
	5	1.55	0.03	0.32	2.71	7.96			N/A	N/A
2	1	11.87	0.23	6.01	29.96	41.31			N/A	N/A
	2	2.86	0.03	0.30	2.86	11.30			N/A	N/A
	3									
	4	1.29	0.03	0.26	1.29	1.29			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.95	0.03	0.27	0.95	1.38			N/A	N/A
	3	42.07	3.80	32.01	88.93	112.17			N/A	N/A
	4	6.67	0.03	0.31	6.67	29.61			N/A	N/A
	5	1.83	0.04	0.38	4.76	9.07			N/A	N/A
2	1	17.25	0.21	7.78	45.58	64.34			N/A	N/A
	2	3.02	0.03	0.28	3.02	6.65			N/A	N/A
	3									
	4	1.32	0.03	0.27	1.32	1.32			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.74	0.56	1.01	1.41	1.46			N/A	N/A
	3	3.88	0.04	0.42	10.60	20.10			N/A	N/A
	4	2.43	0.05	0.55	6.63	10.61			N/A	N/A
	5	0.49	0.04	0.39	1.34	1.50			N/A	N/A
2	1	2.67	0.04	0.40	7.21	13.50			N/A	N/A
	2	1.43	0.07	0.96	3.02	4.27			N/A	N/A
	3									
	4	0.99	0.57	1.03	1.44	1.49			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.52	0.52	1.01	1.41	1.46			N/A	N/A
	3	1.50	0.03	0.29	1.50	4.77			N/A	N/A
	4	1.27	0.03	0.33	2.75	6.47			N/A	N/A
	5	0.23	0.03	0.29	0.82	1.27			N/A	N/A
2	1	1.10	0.03	0.28	1.10	4.01			N/A	N/A
	2	0.81	0.04	0.39	1.88	3.12			N/A	N/A
	3									
	4	0.67	0.15	0.93	1.42	1.48			N/A	N/A

D11 - 2032 | Reference Case + Committed + Site 1 + Site 2 | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	16.84	C
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	88.01	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	48.24	E

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2032	Reference Case + Committed + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1080	100.000
	4		ONE HOUR	✓	1565	100.000
	5		ONE HOUR	✓	109	100.000
2	1		ONE HOUR	✓	744	100.000
	2		ONE HOUR	✓	1022	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

Junction 2	From	To				
			1	2	3	4
		1	0	162	0	582
		2	0	0	368	654
		3	0	0	0	0
		4	0	603	773	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	233	0	0	954	57
	3	0	278	0	769	33
	4	495	1042	0	0	28
	5	45	64	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
From		1	2	3	4
	1	0	6	0	4
	2	0	0	3	3
	3	0	0	0	0
	4	0	3	7	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.51	2.94	1.1	1.5	A	1133	1699
	3	0.79	12.15	3.9	16.5	B	991	1487
	4	0.94	27.65	12.4	68.2	D	1436	2154
	5	0.69	65.51	2.0	9.7	F	100	150
2	1	1.16	243.96	61.3	108.6	F	683	1024
	2	1.02	88.19	28.3	88.0	F	938	1407
	3							
	4	0.61	3.97	1.7	2.8	A	1269	1904

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1036				577				
	2	923	231	0	2560	0.360	921	1036	0.0	0.6	2.263	A
	3	813	203	921	1747	0.465	809	0	0.0	0.9	4.056	A
	4	1178	295	448	1963	0.600	1172	1282	0.0	1.5	4.706	A
	5	82	21	1532	483	0.170	81	88	0.0	0.2	9.311	A
2	1	560	140	1033	984	0.569	555	0	0.0	1.3	8.656	A
	2	769	192	1014	1344	0.573	764	574	0.0	1.4	6.338	A
	3			923				856				
	4	1036	259	0	2471	0.419	1033	923	0.0	0.8	2.628	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1240				690				
	2	1101	275	0	2560	0.430	1100	1240	0.6	0.8	2.543	A
	3	971	243	1100	1611	0.603	968	0	0.9	1.6	5.917	A
	4	1407	352	535	1905	0.739	1402	1533	1.5	2.9	7.378	A
	5	98	24	1832	349	0.281	97	105	0.2	0.4	14.850	B
2	1	669	167	1238	866	0.772	661	0	1.3	3.3	17.718	C
	2	919	230	1213	1222	0.752	912	687	1.4	3.0	11.728	B
	3			1101				1024				
	4	1240	310	0	2471	0.502	1238	1101	0.8	1.1	3.068	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1498				813				
	2	1231	308	0	2560	0.481	1230	1498	0.8	0.9	2.791	A
	3	1189	297	1230	1512	0.786	1181	0	1.6	3.7	11.236	B
	4	1723	431	627	1844	0.934	1691	1784	2.9	10.8	21.231	C
	5	120	30	2195	186	0.644	115	123	0.4	1.6	49.633	E
2	1	819	205	1495	718	1.140	703	0	3.3	32.3	107.084	F
	2	1125	281	1390	1114	1.011	1064	808	3.0	18.4	48.540	E
	3			1231				1223				
	4	1498	374	0	2471	0.606	1495	1231	1.1	1.6	3.872	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1518				825				
	2	1245	311	0	2560	0.486	1245	1518	0.9	1.0	2.824	A
	3	1189	297	1245	1501	0.792	1188	0	3.7	3.9	12.146	B
	4	1723	431	632	1840	0.936	1717	1801	10.8	12.4	27.646	D
	5	120	30	2225	173	0.692	118	124	1.6	2.0	65.511	F
2	1	819	205	1518	705	1.161	703	0	32.3	61.3	243.959	F
	2	1125	281	1403	1106	1.018	1086	818	18.4	28.3	88.187	F
	3			1245				1244				
	4	1518	380	0	2471	0.614	1518	1245	1.6	1.7	3.971	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1274				742				
	2	1297	324	0	2560	0.506	1296	1274	1.0	1.1	2.939	A
	3	971	243	1296	1462	0.664	978	0	3.9	2.1	8.000	A
	4	1407	352	584	1873	0.751	1443	1690	12.4	3.3	9.443	A
	5	98	24	1912	313	0.313	104	115	2.0	0.5	18.434	C
2	1	669	167	1276	844	0.792	830	0	61.3	20.9	182.187	F
	2	919	230	1366	1128	0.814	1011	740	28.3	5.2	43.877	E
	3			1297				1081				
	4	1274	318	0	2471	0.515	1276	1297	1.7	1.1	3.173	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1048				597				
	2	1001	250	0	2560	0.391	1002	1048	1.1	0.7	2.387	A
	3	813	203	1002	1685	0.483	818	0	2.1	1.0	4.426	A
	4	1178	295	469	1949	0.604	1185	1351	3.3	1.6	4.952	A
	5	82	21	1562	470	0.175	83	92	0.5	0.2	9.726	A
2	1	560	140	1050	975	0.575	638	0	20.9	1.5	13.975	B
	2	769	192	1089	1298	0.593	784	599	5.2	1.5	7.405	A
	3			1001				872				
	4	1048	262	0	2471	0.424	1050	1001	1.1	0.8	2.665	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.58	0.57	1.03	1.45	1.50			N/A	N/A
	3	0.92	0.58	1.06	1.48	1.54			N/A	N/A
	4	1.54	0.56	1.43	2.02	2.52			N/A	N/A
	5	0.21	0.00	0.00	0.21	0.21			N/A	N/A
2	1	1.35	0.09	1.07	2.61	3.47			N/A	N/A
	2	1.36	0.20	1.23	2.01	2.63			N/A	N/A
	3									
	4	0.76	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.78	0.11	0.89	1.44	1.51			N/A	N/A
	3	1.58	0.05	0.52	4.01	6.20			N/A	N/A
	4	2.86	0.05	0.47	7.95	13.60			N/A	N/A
	5	0.40	0.03	0.30	0.69	1.13			N/A	N/A
2	1	3.26	0.06	0.76	9.08	14.52			N/A	N/A
	2	2.97	0.05	0.59	8.22	13.33			N/A	N/A
	3									
	4	1.05	0.07	0.80	1.99	2.80			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.95	0.03	0.26	0.95	0.95			N/A	N/A
	3	3.69	0.03	0.32	3.69	16.53			N/A	N/A
	4	10.77	0.06	1.29	31.49	53.20			N/A	N/A
	5	1.63	0.03	0.34	3.20	8.46			N/A	N/A
2	1	32.30	9.79	28.89	54.45	63.65			N/A	N/A
	2	18.39	0.80	11.87	42.63	56.08			N/A	N/A
	3									
	4	1.60	0.03	0.27	1.60	1.60			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.97	0.03	0.27	0.97	0.97			N/A	N/A
	3	3.89	0.03	0.30	3.89	9.20			N/A	N/A
	4	12.41	0.04	0.44	32.49	68.18			N/A	N/A
	5	2.02	0.04	0.43	5.45	9.66			N/A	N/A
2	1	61.27	25.20	57.14	95.39	108.61			N/A	N/A
	2	28.32	1.09	18.19	66.62	87.97			N/A	N/A
	3									
	4	1.66	0.03	0.27	1.66	1.66			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	1.05	0.57	1.03	1.45	1.50			N/A	N/A
	3	2.15	0.10	1.39	4.77	6.50			N/A	N/A
	4	3.26	0.05	0.47	9.12	15.92			N/A	N/A
	5	0.49	0.04	0.39	1.37	1.55			N/A	N/A
2	1	20.92	4.54	17.84	37.61	44.99			N/A	N/A
	2	5.18	0.06	1.26	14.68	23.13			N/A	N/A
	3									
	4	1.13	0.56	1.10	1.13	1.61			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.67	0.57	1.03	1.45	1.50			N/A	N/A
	3	1.00	0.04	0.39	2.46	4.36			N/A	N/A
	4	1.61	0.03	0.32	2.58	8.15			N/A	N/A
	5	0.22	0.03	0.30	0.79	1.29			N/A	N/A
2	1	1.45	0.03	0.28	1.45	1.90			N/A	N/A
	2	1.53	0.03	0.29	1.53	5.82			N/A	N/A
	3									
	4	0.78	0.12	0.91	1.47	1.54			N/A	N/A

D12 - 2032 | Reference Case + Committed + Site 1 + Site 2 | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	44.19	E
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	29.29	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	38.01	E

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2032	Reference Case + Committed + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1413	100.000
	4		ONE HOUR	✓	1392	100.000
	5		ONE HOUR	✓	119	100.000
2	1		ONE HOUR	✓	706	100.000
	2		ONE HOUR	✓	867	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

		To				
Junction 2	From		1	2	3	4
		1	0	180	0	526
		2	0	0	250	617
		3	0	0	0	0
		4	0	711	549	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	228	0	0	870	49
	3	0	401	0	940	72
	4	530	862	0	0	0
	5	48	43	0	28	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
		1	2	3	4
From	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.49	2.79	1.0	1.5	A	1048	1572
	3	1.05	102.36	48.6	118.5	F	1297	1945
	4	0.88	17.65	7.1	36.0	C	1277	1916
	5	0.70	61.29	2.1	10.2	F	109	164
2	1	1.01	97.67	21.5	69.1	F	648	972
	2	0.77	12.42	3.2	12.7	B	796	1193
	3							
	4	0.57	3.50	1.4	2.0	A	1198	1796

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			999				602				
	2	855	214	21	2545	0.336	853	978	0.0	0.5	2.144	A
	3	1064	266	874	1783	0.597	1058	0	0.0	1.5	5.019	A
	4	1048	262	560	1888	0.555	1043	1372	0.0	1.3	4.326	A
	5	90	22	1513	492	0.182	89	90	0.0	0.2	9.045	A
2	1	532	133	975	1017	0.523	527	0	0.0	1.1	7.320	A
	2	653	163	818	1464	0.446	649	685	0.0	0.8	4.475	A
	3			855				612				
	4	978	245	0	2471	0.396	975	855	0.0	0.7	2.471	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1194				721				
	2	1023	256	25	2543	0.402	1022	1169	0.5	0.7	2.388	A
	3	1270	318	1047	1651	0.769	1263	0	1.5	3.3	9.287	A
	4	1251	313	670	1815	0.689	1248	1640	1.3	2.2	6.437	A
	5	107	27	1809	359	0.298	106	108	0.2	0.4	14.441	B
2	1	635	159	1168	906	0.700	630	0	1.1	2.2	12.883	B
	2	779	195	978	1366	0.571	777	820	0.8	1.3	6.198	A
	3			1023				733				
	4	1169	292	0	2471	0.473	1168	1023	0.7	0.9	2.841	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1427				870				
	2	1219	305	30	2539	0.480	1218	1397	0.7	0.9	2.749	A
	3	1556	389	1247	1499	1.038	1456	0	3.3	28.2	49.577	E
	4	1533	383	782	1741	0.880	1515	1922	2.2	6.6	15.253	C
	5	131	33	2170	198	0.663	126	126	0.4	1.7	47.938	E
2	1	777	194	1395	776	1.002	731	0	2.2	13.9	54.488	F
	2	955	239	1152	1259	0.758	948	974	1.3	3.0	11.517	B
	3			1219				881				
	4	1397	349	0	2471	0.565	1395	1219	0.9	1.3	3.437	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1443				881				
	2	1235	309	30	2539	0.487	1235	1413	0.9	1.0	2.788	A
	3	1556	389	1266	1485	1.048	1474	0	28.2	48.6	102.359	F
	4	1533	383	792	1734	0.884	1530	1948	6.6	7.1	17.648	C
	5	131	33	2194	187	0.701	130	128	1.7	2.1	61.290	F
2	1	777	194	1413	766	1.015	747	0	13.9	21.5	97.673	F
	2	955	239	1172	1247	0.765	954	988	3.0	3.2	12.420	B
	3			1235				891				
	4	1413	353	0	2471	0.572	1413	1235	1.3	1.4	3.497	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1264				745				
	2	1087	272	27	2541	0.428	1088	1238	1.0	0.8	2.501	A
	3	1270	318	1115	1600	0.794	1447	0	48.6	4.4	42.974	E
	4	1251	313	747	1764	0.710	1270	1815	7.1	2.6	7.711	A
	5	107	27	1897	320	0.334	113	120	2.1	0.5	18.150	C
2	1	635	159	1239	866	0.733	709	0	21.5	3.0	32.106	D
	2	779	195	1068	1311	0.594	786	880	3.2	1.5	7.060	A
	3			1087				767				
	4	1238	309	0	2471	0.501	1239	1087	1.4	1.0	3.007	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1011				610				
	2	868	217	21	2545	0.341	869	990	0.8	0.5	2.169	A
	3	1064	266	890	1770	0.601	1075	0	4.4	1.6	5.358	A
	4	1048	262	570	1882	0.557	1053	1396	2.6	1.3	4.467	A
	5	90	22	1531	484	0.185	91	92	0.5	0.2	9.325	A
2	1	532	133	991	1008	0.527	539	0	3.0	1.1	7.829	A
	2	653	163	833	1455	0.449	655	697	1.5	0.8	4.595	A
	3			868				621				
	4	990	247	0	2471	0.401	991	868	1.0	0.7	2.503	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.51	0.51	1.01	1.41	1.46			N/A	N/A
	3	1.49	0.13	1.24	2.68	3.43			N/A	N/A
	4	1.26	0.57	1.16	1.57	1.81			N/A	N/A
	5	0.22	0.00	0.00	0.22	0.22			N/A	N/A
2	1	1.08	0.24	1.06	1.51	1.80			N/A	N/A
	2	0.81	0.56	1.02	1.42	1.47			N/A	N/A
	3									
	4	0.67	0.57	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.68	0.09	0.81	1.38	1.45			N/A	N/A
	3	3.25	0.05	0.46	9.10	15.90			N/A	N/A
	4	2.22	0.05	0.45	6.06	10.28			N/A	N/A
	5	0.42	0.03	0.33	1.10	1.31			N/A	N/A
2	1	2.24	0.05	0.50	6.06	9.73			N/A	N/A
	2	1.33	0.05	0.63	3.11	4.68			N/A	N/A
	3									
	4	0.92	0.07	0.83	1.56	1.95			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.93	0.03	0.26	0.93	0.93			N/A	N/A
	3	28.16	2.73	21.65	58.35	73.18			N/A	N/A
	4	6.59	0.04	0.39	15.97	36.01			N/A	N/A
	5	1.72	0.03	0.33	3.66	9.00			N/A	N/A
2	1	13.92	0.47	8.50	32.85	43.68			N/A	N/A
	2	3.03	0.03	0.30	3.03	12.74			N/A	N/A
	3									
	4	1.33	0.03	0.26	1.33	1.33			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.95	0.03	0.27	0.95	1.32			N/A	N/A
	3	48.58	7.09	39.51	96.22	118.46			N/A	N/A
	4	7.15	0.03	0.32	8.25	33.72			N/A	N/A
	5	2.07	0.04	0.40	5.57	10.21			N/A	N/A
2	1	21.50	0.62	13.03	51.69	69.08			N/A	N/A
	2	3.20	0.03	0.28	3.20	7.59			N/A	N/A
	3									
	4	1.36	0.03	0.27	1.36	1.36			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.76	0.56	1.01	1.41	1.46			N/A	N/A
	3	4.36	0.04	0.45	12.16	22.32			N/A	N/A
	4	2.56	0.05	0.55	7.02	11.28			N/A	N/A
	5	0.52	0.04	0.40	1.31	1.31			N/A	N/A
2	1	2.99	0.04	0.42	8.19	15.16			N/A	N/A
	2	1.52	0.07	0.97	3.37	4.75			N/A	N/A
	3									
	4	1.04	0.57	1.03	1.45	1.50			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.52	0.52	1.01	1.41	1.46			N/A	N/A
	3	1.56	0.03	0.28	1.56	4.60			N/A	N/A
	4	1.30	0.03	0.33	2.71	6.67			N/A	N/A
	5	0.23	0.03	0.29	0.83	1.32			N/A	N/A
2	1	1.14	0.03	0.28	1.14	3.78			N/A	N/A
	2	0.84	0.04	0.38	1.96	3.42			N/A	N/A
	3									
	4	0.69	0.15	0.93	1.42	1.48			N/A	N/A

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Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	15.84	C
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	60.76	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	35.49	E

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2042	Local Plan	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1070	100.000
	4		ONE HOUR	✓	1631	100.000
	5		ONE HOUR	✓	0	100.000
2	1		ONE HOUR	✓	729	100.000
	2		ONE HOUR	✓	957	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

Junction 2

	To				
		1	2	3	4
From	1	0	164	0	565
	2	0	0	312	645
	3	0	0	0	0
	4	0	589	756	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	235	0	0	985	0
	3	0	258	0	812	0
	4	534	1097	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
From		1	2	3	4
	1	0	6	0	4
	2	0	0	3	3
	3	0	0	0	0
	4	0	3	7	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.49	2.86	1.0	1.5	A	1109	1664
	3	0.79	12.20	3.9	16.2	B	982	1473
	4	0.94	27.85	13.0	71.5	D	1497	2245
	5	0.00	0.00	0.0	~1	A	0	0
2	1	1.11	187.09	46.0	93.5	F	669	1003
	2	0.95	45.04	12.4	62.4	E	878	1317
	3							
	4	0.60	3.84	1.6	2.5	A	1242	1864

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1015				574				
	2	904	226	0	2560	0.353	902	1015	0.0	0.6	2.241	A
	3	806	201	902	1762	0.457	802	0	0.0	0.9	3.972	A
	4	1228	307	367	2017	0.609	1221	1337	0.0	1.6	4.684	A
	5	0	0	1589	458	0.000	0	0	0.0	0.0	0.000	A
2	1	549	137	1012	996	0.551	544	0	0.0	1.3	8.224	A
	2	720	180	990	1359	0.530	716	566	0.0	1.1	5.730	A
	3			904				802				
	4	1015	254	0	2471	0.411	1012	904	0.0	0.7	2.589	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1214				686				
	2	1080	270	0	2560	0.422	1079	1214	0.6	0.8	2.511	A
	3	962	240	1079	1627	0.591	959	0	0.9	1.5	5.708	A
	4	1466	367	439	1969	0.745	1461	1599	1.6	3.0	7.315	A
	5	0	0	1900	319	0.000	0	0	0.0	0.0	0.000	A
2	1	655	164	1213	881	0.744	649	0	1.3	2.8	15.800	C
	2	860	215	1185	1239	0.694	856	677	1.1	2.3	9.555	A
	3			1080				961				
	4	1214	303	0	2471	0.491	1213	1080	0.7	1.0	3.006	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1467				816				
	2	1243	311	0	2560	0.485	1242	1467	0.8	1.0	2.821	A
	3	1178	295	1242	1503	0.784	1170	0	1.5	3.6	11.187	B
	4	1796	449	521	1914	0.938	1763	1890	3.0	11.3	21.222	C
	5	0	0	2284	147	0.000	0	0	0.0	0.0	0.000	A
2	1	803	201	1465	736	1.091	713	0	2.8	25.1	86.762	F
	2	1054	263	1377	1122	0.939	1023	802	2.3	9.8	31.089	D
	3			1243				1157				
	4	1467	367	0	2471	0.594	1465	1243	1.0	1.5	3.756	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1487				828				
	2	1261	315	0	2560	0.492	1261	1487	1.0	1.0	2.862	A
	3	1178	295	1261	1489	0.791	1177	0	3.6	3.9	12.196	B
	4	1796	449	527	1911	0.940	1789	1911	11.3	13.0	27.851	D
	5	0	0	2315	133	0.000	0	0	0.0	0.0	0.000	A
2	1	803	201	1487	723	1.110	719	0	25.1	46.0	187.095	F
	2	1054	263	1393	1112	0.948	1043	813	9.8	12.4	45.041	E
	3			1261				1176				
	4	1487	372	0	2471	0.602	1487	1261	1.5	1.6	3.845	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1246				732				
	2	1242	310	0	2560	0.485	1242	1246	1.0	1.0	2.823	A
	3	962	240	1242	1503	0.640	970	0	3.9	1.9	7.266	A
	4	1466	367	473	1947	0.753	1505	1738	13.0	3.3	9.214	A
	5	0	0	1978	284	0.000	0	0	0.0	0.0	0.000	A
2	1	655	164	1248	860	0.762	822	0	46.0	4.3	107.793	F
	2	860	215	1339	1145	0.751	897	732	12.4	3.3	16.850	C
	3			1242				994				
	4	1246	312	0	2471	0.504	1248	1242	1.6	1.1	3.102	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1026				583				
	2	926	231	0	2560	0.362	927	1026	1.0	0.6	2.280	A
	3	806	201	927	1742	0.462	810	0	1.9	0.9	4.118	A
	4	1228	307	374	2013	0.610	1234	1363	3.3	1.7	4.868	A
	5	0	0	1608	449	0.000	0	0	0.0	0.0	0.000	A
2	1	549	137	1027	988	0.556	561	0	4.3	1.3	9.046	A
	2	720	180	1012	1345	0.535	729	576	3.3	1.2	6.092	A
	3			926				815				
	4	1026	256	0	2471	0.415	1027	926	1.1	0.7	2.623	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.56	0.56	1.03	1.45	1.50			N/A	N/A
	3	0.89	0.58	1.06	1.49	1.54			N/A	N/A
	4	1.60	0.56	1.48	2.09	2.70			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.26	0.11	1.11	2.04	2.75			N/A	N/A
	2	1.15	0.53	1.11	1.46	1.78			N/A	N/A
	3									
	4	0.73	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.75	0.10	0.87	1.44	1.51			N/A	N/A
	3	1.51	0.05	0.51	3.82	5.93			N/A	N/A
	4	2.95	0.05	0.47	8.20	14.13			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	2.85	0.05	0.61	7.86	12.64			N/A	N/A
	2	2.26	0.05	0.49	6.13	10.00			N/A	N/A
	3									
	4	1.01	0.07	0.82	1.86	2.52			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.97	0.03	0.26	0.97	0.97			N/A	N/A
	3	3.64	0.03	0.32	3.64	16.18			N/A	N/A
	4	11.26	0.06	1.43	33.01	55.27			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	25.14	4.93	21.20	46.48	56.06			N/A	N/A
	2	9.84	0.08	2.00	28.19	43.59			N/A	N/A
	3									
	4	1.52	0.03	0.27	1.52	1.52			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	1.00	0.03	0.27	1.00	1.00			N/A	N/A
	3	3.87	0.03	0.30	3.87	9.52			N/A	N/A
	4	13.03	0.05	0.45	34.78	71.51			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	46.00	13.04	40.92	79.49	93.55			N/A	N/A
	2	12.42	0.06	1.25	36.35	62.40			N/A	N/A
	3									
	4	1.58	0.03	0.28	1.58	1.58			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.98	0.57	1.03	1.45	1.50			N/A	N/A
	3	1.93	0.09	1.24	4.24	5.96			N/A	N/A
	4	3.30	0.05	0.46	9.21	16.30			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	4.34	0.05	0.46	12.11	22.19			N/A	N/A
	2	3.30	0.05	0.73	9.19	14.80			N/A	N/A
	3									
	4	1.08	0.57	1.08	1.20	1.20			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.59	0.57	1.03	1.45	1.50			N/A	N/A
	3	0.92	0.04	0.38	2.19	4.03			N/A	N/A
	4	1.65	0.03	0.32	2.60	8.32			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.33	0.03	0.28	1.33	2.51			N/A	N/A
	2	1.20	0.03	0.30	1.20	5.35			N/A	N/A
	3									
	4	0.75	0.12	0.91	1.45	1.52			N/A	N/A

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Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	25.78	D
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	19.43	C

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	23.15	C

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2042	Local Plan	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1354	100.000
	4		ONE HOUR	✓	1440	100.000
	5		ONE HOUR	✓	0	100.000
2	1		ONE HOUR	✓	693	100.000
	2		ONE HOUR	✓	843	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

Junction 2

From	To				
		1	2	3	4
	1	0	179	0	514
	2	0	0	220	623
	3	0	0	0	0
	4	0	649	573	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	233	0	0	913	0
	3	0	353	0	1001	0
	4	560	880	0	0	0
	5	0	0	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
		1	2	3	4
From	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.49	2.76	0.9	1.5	A	1042	1564
	3	0.99	57.36	23.6	92.6	F	1242	1864
	4	0.86	14.23	6.0	30.4	B	1321	1982
	5	0.00	0.00	0.0	~1	A	0	0
2	1	0.95	57.37	11.5	54.3	F	636	954
	2	0.75	11.83	3.0	10.9	B	774	1160
	3							
	4	0.55	3.30	1.2	1.6	A	1131	1696

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			924				592				
	2	851	213	0	2560	0.332	849	924	0.0	0.5	2.123	A
	3	1019	255	849	1802	0.566	1014	0	0.0	1.3	4.632	A
	4	1084	271	437	1971	0.550	1079	1426	0.0	1.2	4.109	A
	5	0	0	1516	490	0.000	0	0	0.0	0.0	0.000	A
2	1	522	130	921	1048	0.498	518	0	0.0	1.0	6.772	A
	2	635	159	816	1465	0.433	632	623	0.0	0.8	4.376	A
	3			851				597				
	4	924	231	0	2471	0.374	921	851	0.0	0.6	2.386	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1105				709				
	2	1018	255	0	2560	0.398	1017	1105	0.5	0.7	2.355	A
	3	1217	304	1017	1674	0.727	1212	0	1.3	2.6	7.863	A
	4	1295	324	523	1913	0.677	1291	1706	1.2	2.1	5.880	A
	5	0	0	1814	357	0.000	0	0	0.0	0.0	0.000	A
2	1	623	156	1104	943	0.660	619	0	1.0	1.9	11.048	B
	2	758	189	977	1367	0.554	756	746	0.8	1.2	5.976	A
	3			1018				715				
	4	1105	276	0	2471	0.447	1104	1018	0.6	0.8	2.708	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1335				860				
	2	1227	307	0	2560	0.479	1226	1335	0.7	0.9	2.720	A
	3	1491	373	1226	1516	0.984	1436	0	2.6	16.4	33.698	D
	4	1585	396	623	1846	0.859	1571	2038	2.1	5.7	12.768	B
	5	0	0	2195	187	0.000	0	0	0.0	0.0	0.000	A
2	1	763	191	1333	812	0.940	735	0	1.9	8.8	38.270	E
	2	928	232	1170	1248	0.744	922	898	1.2	2.8	11.014	B
	3			1227				866				
	4	1335	334	0	2471	0.540	1333	1227	0.8	1.2	3.250	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1349				869				
	2	1244	311	0	2560	0.486	1243	1349	0.9	0.9	2.760	A
	3	1491	373	1243	1502	0.993	1462	0	16.4	23.6	57.364	F
	4	1585	396	634	1839	0.862	1584	2071	5.7	6.0	14.231	B
	5	0	0	2218	176	0.000	0	0	0.0	0.0	0.000	A
2	1	763	191	1349	802	0.951	752	0	8.8	11.5	57.367	F
	2	928	232	1191	1236	0.751	928	911	2.8	3.0	11.832	B
	3			1244				875				
	4	1349	337	0	2471	0.546	1349	1244	1.2	1.2	3.300	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1139				724				
	2	1055	264	0	2560	0.412	1055	1139	0.9	0.7	2.417	A
	3	1217	304	1055	1645	0.740	1300	0	23.6	3.0	13.189	B
	4	1295	324	553	1893	0.684	1310	1802	6.0	2.3	6.465	A
	5	0	0	1863	335	0.000	0	0	0.0	0.0	0.000	A
2	1	623	156	1141	922	0.675	660	0	11.5	2.2	15.635	C
	2	758	189	1024	1338	0.567	764	776	3.0	1.4	6.459	A
	3			1055				734				
	4	1139	285	0	2471	0.461	1141	1055	1.2	0.9	2.786	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			932				598				
	2	861	215	0	2560	0.336	862	932	0.7	0.5	2.143	A
	3	1019	255	862	1792	0.569	1026	0	3.0	1.4	4.837	A
	4	1084	271	443	1967	0.551	1088	1445	2.3	1.3	4.206	A
	5	0	0	1531	484	0.000	0	0	0.0	0.0	0.000	A
2	1	522	130	933	1041	0.501	526	0	2.2	1.0	7.090	A
	2	635	159	828	1458	0.435	637	632	1.4	0.8	4.473	A
	3			861				604				
	4	932	233	0	2471	0.377	933	861	0.9	0.6	2.410	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.50	0.00	0.00	0.50	0.50			N/A	N/A
	3	1.31	0.22	1.21	1.92	2.41			N/A	N/A
	4	1.24	0.57	1.12	1.39	1.72			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	0.98	0.53	1.02	1.04	1.04			N/A	N/A
	2	0.77	0.56	1.02	1.42	1.48			N/A	N/A
	3									
	4	0.61	0.57	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.66	0.09	0.80	1.38	1.45			N/A	N/A
	3	2.64	0.04	0.44	7.26	12.92			N/A	N/A
	4	2.10	0.04	0.45	5.72	9.70			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.89	0.05	0.50	4.98	7.90			N/A	N/A
	2	1.25	0.05	0.65	2.86	4.16			N/A	N/A
	3									
	4	0.83	0.08	0.83	1.06	1.61			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.92	0.03	0.26	0.92	0.92			N/A	N/A
	3	16.41	0.22	7.70	42.83	60.03			N/A	N/A
	4	5.65	0.03	0.35	10.97	30.37			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	8.84	0.09	2.44	24.68	36.96			N/A	N/A
	2	2.82	0.03	0.30	2.82	10.93			N/A	N/A
	3									
	4	1.20	0.03	0.26	1.20	1.20			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.95	0.03	0.27	0.95	1.41			N/A	N/A
	3	23.64	0.19	9.54	64.38	92.64			N/A	N/A
	4	6.02	0.03	0.30	6.02	22.63			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	11.49	0.07	1.47	33.56	54.33			N/A	N/A
	2	2.97	0.03	0.28	2.97	6.49			N/A	N/A
	3									
	4	1.23	0.03	0.27	1.23	1.23			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.71	0.56	1.01	1.41	1.46			N/A	N/A
	3	3.03	0.04	0.41	8.12	15.63			N/A	N/A
	4	2.26	0.05	0.52	6.08	9.73			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	2.18	0.04	0.39	5.81	10.94			N/A	N/A
	2	1.35	0.07	0.90	2.90	4.03			N/A	N/A
	3									
	4	0.88	0.57	1.03	1.44	1.49			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.51	0.51	1.01	1.41	1.46			N/A	N/A
	3	1.36	0.03	0.29	1.36	5.38			N/A	N/A
	4	1.27	0.03	0.35	2.94	6.41			N/A	N/A
	5	0.00	0.00	0.00	0.00	0.00			N/A	N/A
2	1	1.02	0.03	0.29	1.33	4.39			N/A	N/A
	2	0.79	0.04	0.39	1.84	3.00			N/A	N/A
	3									
	4	0.63	0.14	0.92	1.42	1.48			N/A	N/A

D15 - 2042 | Local Plan + Committed | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	24.73	C
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	103.70	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	58.91	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2042	Local Plan + Committed	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1108	100.000
	4		ONE HOUR	✓	1650	100.000
	5		ONE HOUR	✓	109	100.000
2	1		ONE HOUR	✓	779	100.000
	2		ONE HOUR	✓	958	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

	To					
Junction 2	From		1	2	3	4
		1	0	164	0	615
		2	0	0	307	651
		3	0	0	0	0
		4	0	591	817	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	231	0	0	987	57
	3	0	258	0	817	33
	4	527	1095	0	0	28
	5	45	64	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
From		1	2	3	4
	1	0	6	0	4
	2	0	0	3	3
	3	0	0	0	0
	4	0	3	7	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.49	2.84	1.0	1.5	A	1160	1740
	3	0.81	13.61	4.5	21.0	B	1017	1525
	4	0.98	44.04	21.4	96.7	E	1514	2271
	5	0.80	99.35	3.0	13.2	F	100	150
2	1	1.24	339.11	86.6	134.7	F	715	1072
	2	0.97	59.50	16.8	72.4	F	879	1319
	3							
	4	0.63	4.09	1.7	3.0	A	1299	1949

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1061				599				
	2	945	236	0	2560	0.369	942	1061	0.0	0.6	2.294	A
	3	834	209	942	1731	0.482	830	0	0.0	1.0	4.223	A
	4	1242	311	431	1975	0.629	1235	1342	0.0	1.7	5.030	A
	5	82	21	1578	462	0.177	81	88	0.0	0.2	9.816	A
2	1	586	147	1058	970	0.605	580	0	0.0	1.6	9.502	A
	2	721	180	1072	1309	0.551	716	566	0.0	1.2	6.207	A
	3			945				843				
	4	1061	265	0	2471	0.429	1058	945	0.0	0.8	2.675	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1268				716				
	2	1126	281	0	2560	0.440	1125	1268	0.6	0.8	2.587	A
	3	996	249	1125	1592	0.626	993	0	1.0	1.7	6.339	A
	4	1483	371	515	1919	0.773	1477	1603	1.7	3.4	8.366	A
	5	98	24	1887	325	0.302	97	105	0.2	0.4	16.426	C
2	1	700	175	1267	850	0.824	689	0	1.6	4.3	22.079	C
	2	861	215	1279	1181	0.729	856	677	1.2	2.7	11.190	B
	3			1126				1009				
	4	1268	317	0	2471	0.513	1267	1126	0.8	1.1	3.144	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1519				835				
	2	1240	310	0	2560	0.484	1239	1519	0.8	1.0	2.811	A
	3	1220	305	1239	1505	0.811	1210	0	1.7	4.2	12.534	B
	4	1817	454	598	1863	0.975	1764	1852	3.4	16.5	28.806	D
	5	120	30	2241	166	0.722	113	121	0.4	2.1	64.384	F
2	1	858	214	1517	706	1.215	697	0	4.3	44.5	141.490	F
	2	1055	264	1430	1089	0.969	1015	783	2.7	12.6	38.218	E
	3			1240				1205				
	4	1519	380	0	2471	0.615	1517	1240	1.1	1.7	3.960	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1545				848				
	2	1249	312	0	2560	0.488	1249	1545	1.0	1.0	2.833	A
	3	1220	305	1249	1497	0.815	1219	0	4.2	4.5	13.610	B
	4	1817	454	602	1860	0.977	1797	1866	16.5	21.4	44.041	E
	5	120	30	2277	150	0.800	116	123	2.1	3.0	99.347	F
2	1	858	214	1545	690	1.243	689	0	44.5	86.6	339.105	F
	2	1055	264	1440	1083	0.974	1038	793	12.6	16.8	59.497	F
	3			1249				1229				
	4	1545	386	0	2471	0.625	1545	1249	1.7	1.7	4.087	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1328				768				
	2	1255	314	0	2560	0.490	1255	1328	1.0	1.0	2.844	A
	3	996	249	1255	1494	0.667	1005	0	4.5	2.2	7.957	A
	4	1483	371	547	1897	0.782	1553	1712	21.4	3.9	12.984	B
	5	98	24	1988	279	0.351	108	112	3.0	0.6	23.015	C
2	1	700	175	1330	813	0.861	804	0	86.6	60.7	324.304	F
	2	861	215	1406	1104	0.780	912	727	16.8	4.0	23.519	C
	3			1255				1064				
	4	1328	332	0	2471	0.537	1330	1255	1.7	1.2	3.328	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1074				641				
	2	1146	286	0	2560	0.447	1146	1074	1.0	0.8	2.630	A
	3	834	209	1146	1576	0.529	838	0	2.2	1.2	5.202	A
	4	1242	311	479	1943	0.639	1250	1505	3.9	1.9	5.485	A
	5	82	21	1632	438	0.187	83	97	0.6	0.2	10.603	B
2	1	586	147	1076	960	0.611	822	0	60.7	1.8	79.052	F
	2	721	180	1273	1185	0.609	731	625	4.0	1.6	8.317	A
	3			1146				858				
	4	1074	268	0	2471	0.435	1076	1146	1.2	0.8	2.717	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.60	0.57	1.03	1.45	1.50			N/A	N/A
	3	0.98	0.58	1.06	1.48	1.54			N/A	N/A
	4	1.74	0.38	1.54	2.74	3.24			N/A	N/A
	5	0.22	0.00	0.00	0.22	0.22			N/A	N/A
2	1	1.55	0.07	0.94	3.54	5.03			N/A	N/A
	2	1.25	0.31	1.18	1.77	1.99			N/A	N/A
	3									
	4	0.79	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.81	0.12	0.90	1.46	1.53			N/A	N/A
	3	1.74	0.05	0.51	4.52	7.12			N/A	N/A
	4	3.42	0.05	0.49	9.61	16.33			N/A	N/A
	5	0.44	0.04	0.37	1.20	1.38			N/A	N/A
2	1	4.30	0.07	1.27	11.94	18.43			N/A	N/A
	2	2.65	0.05	0.60	7.25	11.64			N/A	N/A
	3									
	4	1.10	0.06	0.79	2.12	3.03			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.96	0.03	0.26	0.96	0.96			N/A	N/A
	3	4.23	0.03	0.33	5.93	20.95			N/A	N/A
	4	16.53	0.15	6.12	45.30	65.80			N/A	N/A
	5	2.13	0.04	0.40	5.61	10.68			N/A	N/A
2	1	44.45	18.93	41.52	68.12	77.27			N/A	N/A
	2	12.58	0.15	5.08	33.66	48.17			N/A	N/A
	3									
	4	1.66	0.03	0.27	1.66	1.66			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.98	0.03	0.27	0.98	0.98			N/A	N/A
	3	4.46	0.03	0.30	4.46	13.20			N/A	N/A
	4	21.37	0.10	4.53	62.15	96.70			N/A	N/A
	5	3.03	0.06	0.79	8.31	13.15			N/A	N/A
2	1	86.58	46.99	83.29	121.94	134.72			N/A	N/A
	2	16.77	0.11	4.48	47.83	72.41			N/A	N/A
	3									
	4	1.74	0.03	0.27	1.74	1.74			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.99	0.57	1.03	1.45	1.50			N/A	N/A
	3	2.18	0.07	1.08	5.36	7.86			N/A	N/A
	4	3.93	0.04	0.45	10.92	20.05			N/A	N/A
	5	0.58	0.04	0.40	1.56	1.81			N/A	N/A
2	1	60.73	35.76	58.71	82.17	89.77			N/A	N/A
	2	3.97	0.05	0.56	11.26	18.82			N/A	N/A
	3									
	4	1.23	0.57	1.16	1.55	1.84			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.84	0.57	1.03	1.45	1.50			N/A	N/A
	3	1.21	0.04	0.40	3.04	5.44			N/A	N/A
	4	1.88	0.03	0.31	2.34	8.98			N/A	N/A
	5	0.24	0.03	0.29	0.72	1.42			N/A	N/A
2	1	1.76	0.03	0.28	1.76	1.83			N/A	N/A
	2	1.64	0.03	0.31	2.29	8.04			N/A	N/A
	3									
	4	0.81	0.11	0.91	1.49	1.56			N/A	N/A

D16 - 2042 | Local Plan + Committed | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	53.63	F
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	31.98	D

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	44.82	E

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2042	Local Plan + Committed	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1416	100.000
	4		ONE HOUR	✓	1451	100.000
	5		ONE HOUR	✓	119	100.000
2	1		ONE HOUR	✓	731	100.000
	2		ONE HOUR	✓	851	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

	To					
Junction 2	From	1	2	3	4	
		1	0	175	0	556
		2	0	0	220	631
		3	0	0	0	0
		4	0	650	582	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	233	0	0	909	49
	3	0	346	0	998	72
	4	562	889	0	0	0
	5	48	43	0	28	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
		1	2	3	4
From	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.50	2.89	1.0	1.5	A	1088	1632
	3	1.07	130.12	63.3	132.0	F	1299	1949
	4	0.90	19.68	8.3	42.5	C	1331	1997
	5	0.71	62.97	2.1	10.5	F	109	164
2	1	1.02	103.55	23.9	72.3	F	671	1006
	2	0.78	13.40	3.4	14.3	B	781	1171
	3							
	4	0.56	3.38	1.3	1.8	A	1172	1758

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			978				630				
	2	888	222	21	2545	0.349	886	957	0.0	0.5	2.186	A
	3	1066	267	906	1758	0.606	1060	0	0.0	1.5	5.210	A
	4	1092	273	523	1914	0.571	1087	1444	0.0	1.3	4.424	A
	5	90	22	1519	489	0.183	89	90	0.0	0.2	9.111	A
2	1	550	138	954	1029	0.535	546	0	0.0	1.1	7.415	A
	2	641	160	866	1435	0.447	637	634	0.0	0.8	4.575	A
	3			888				616				
	4	957	239	0	2471	0.387	954	888	0.0	0.6	2.438	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1169				754				
	2	1062	265	25	2543	0.418	1061	1144	0.5	0.7	2.451	A
	3	1273	318	1086	1622	0.785	1265	0	1.5	3.5	10.066	B
	4	1304	326	625	1845	0.707	1300	1726	1.3	2.4	6.696	A
	5	107	27	1817	356	0.301	106	108	0.2	0.4	14.589	B
2	1	657	164	1143	921	0.714	652	0	1.1	2.4	13.223	B
	2	765	191	1036	1331	0.575	763	759	0.8	1.4	6.426	A
	3			1062				737				
	4	1144	286	0	2471	0.463	1143	1062	0.6	0.9	2.788	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1392				908				
	2	1263	316	30	2539	0.497	1262	1362	0.7	1.0	2.841	A
	3	1559	390	1291	1466	1.064	1434	0	3.5	34.9	58.993	F
	4	1598	399	722	1781	0.897	1577	2003	2.4	7.5	16.624	C
	5	131	33	2174	196	0.668	126	125	0.4	1.8	48.871	E
2	1	805	201	1360	796	1.011	754	0	2.4	15.2	56.585	F
	2	937	234	1216	1220	0.768	930	898	1.4	3.2	12.302	B
	3			1263				883				
	4	1362	340	0	2471	0.551	1360	1263	0.9	1.3	3.331	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1407				920				
	2	1280	320	30	2539	0.504	1280	1377	1.0	1.0	2.886	A
	3	1559	390	1310	1451	1.074	1445	0	34.9	63.3	130.118	F
	4	1598	399	730	1775	0.900	1595	2026	7.5	8.3	19.683	C
	5	131	33	2198	185	0.707	130	126	1.8	2.1	62.972	F
2	1	805	201	1377	786	1.023	770	0	15.2	23.9	103.549	F
	2	937	234	1236	1208	0.776	936	911	3.2	3.4	13.401	B
	3			1280				892				
	4	1377	344	0	2471	0.557	1377	1280	1.3	1.3	3.384	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1248				781				
	2	1135	284	27	2541	0.447	1136	1221	1.0	0.8	2.586	A
	3	1273	318	1162	1564	0.814	1504	0	63.3	5.6	78.025	F
	4	1304	326	713	1787	0.730	1326	1953	8.3	2.9	8.343	A
	5	107	27	1916	312	0.343	113	123	2.1	0.5	18.971	C
2	1	657	164	1222	875	0.751	739	0	23.9	3.3	38.402	E
	2	765	191	1140	1267	0.604	772	822	3.4	1.6	7.503	A
	3			1135				777				
	4	1221	305	0	2471	0.494	1222	1135	1.3	1.0	2.970	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			991				639				
	2	902	226	21	2545	0.355	903	970	0.8	0.6	2.216	A
	3	1066	267	925	1744	0.611	1082	0	5.6	1.6	5.669	A
	4	1092	273	533	1906	0.573	1098	1473	2.9	1.4	4.585	A
	5	90	22	1539	480	0.187	91	92	0.5	0.2	9.422	A
2	1	550	138	971	1019	0.540	559	0	3.3	1.2	7.992	A
	2	641	160	884	1424	0.450	644	646	1.6	0.8	4.713	A
	3			902				625				
	4	970	243	0	2471	0.392	971	902	1.0	0.7	2.474	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.54	0.54	1.01	1.41	1.46			N/A	N/A
	3	1.55	0.11	1.21	2.94	3.90			N/A	N/A
	4	1.34	0.57	1.24	1.74	1.91			N/A	N/A
	5	0.22	0.00	0.00	0.22	0.22			N/A	N/A
2	1	1.13	0.22	1.09	1.64	1.89			N/A	N/A
	2	0.81	0.56	1.02	1.42	1.48			N/A	N/A
	3									
	4	0.65	0.57	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.72	0.09	0.82	1.40	1.48			N/A	N/A
	3	3.54	0.05	0.47	9.95	17.17			N/A	N/A
	4	2.40	0.05	0.46	6.63	11.28			N/A	N/A
	5	0.43	0.03	0.34	1.13	1.33			N/A	N/A
2	1	2.38	0.05	0.55	6.49	10.37			N/A	N/A
	2	1.35	0.05	0.62	3.21	4.81			N/A	N/A
	3									
	4	0.88	0.08	0.84	1.37	1.81			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.99	0.03	0.26	0.99	0.99			N/A	N/A
	3	34.87	6.48	29.28	65.78	79.73			N/A	N/A
	4	7.55	0.04	0.42	20.07	41.03			N/A	N/A
	5	1.75	0.03	0.34	3.84	9.16			N/A	N/A
2	1	15.17	0.71	9.85	34.80	45.65			N/A	N/A
	2	3.18	0.03	0.31	3.18	14.31			N/A	N/A
	3									
	4	1.25	0.03	0.26	1.25	1.25			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	1.02	0.03	0.27	1.02	1.02			N/A	N/A
	3	63.32	16.95	56.03	111.58	132.03			N/A	N/A
	4	8.27	0.03	0.34	13.09	42.48			N/A	N/A
	5	2.13	0.04	0.41	5.74	10.47			N/A	N/A
2	1	23.85	1.08	15.68	55.15	72.32			N/A	N/A
	2	3.38	0.03	0.29	3.38	9.25			N/A	N/A
	3									
	4	1.29	0.03	0.27	1.29	1.29			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.82	0.56	1.01	1.41	1.46			N/A	N/A
	3	5.57	0.05	0.67	16.02	27.20			N/A	N/A
	4	2.85	0.05	0.55	7.90	12.82			N/A	N/A
	5	0.55	0.04	0.41	1.41	1.41			N/A	N/A
2	1	3.33	0.04	0.43	9.27	16.72			N/A	N/A
	2	1.58	0.07	0.97	3.60	5.05			N/A	N/A
	3									
	4	1.01	0.57	1.03	1.44	1.49			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.56	0.56	1.01	1.41	1.46			N/A	N/A
	3	1.63	0.03	0.28	1.63	3.97			N/A	N/A
	4	1.39	0.03	0.33	2.70	7.15			N/A	N/A
	5	0.24	0.03	0.29	0.83	1.34			N/A	N/A
2	1	1.20	0.03	0.28	1.20	3.89			N/A	N/A
	2	0.84	0.04	0.37	1.98	3.60			N/A	N/A
	3									
	4	0.67	0.17	0.94	1.42	1.48			N/A	N/A

D17 - 2042 | Local Plan + Committed + Site 1 | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	29.59	D
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	137.20	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	76.86	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D17	2042	Local Plan + Committed + Site 1	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1136	100.000
	4		ONE HOUR	✓	1658	100.000
	5		ONE HOUR	✓	109	100.000
2	1		ONE HOUR	✓	784	100.000
	2		ONE HOUR	✓	1051	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)	
Junction 2	
	To
	1234
	From
	101690615
	200371680
	30000
	406288170

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	241	0	0	1006	57
	3	0	286	0	817	33
	4	527	1103	0	0	28
	5	45	64	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
From		1	2	3	4
	1	0	6	0	4
	2	0	0	3	3
	3	0	0	0	0
	4	0	3	7	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.51	2.97	1.1	1.5	A	1186	1779
	3	0.83	14.45	4.8	24.1	B	1042	1564
	4	0.99	53.76	26.9	105.7	F	1521	2282
	5	0.88	135.50	4.1	16.2	F	100	150
2	1	1.28	400.03	98.3	146.6	F	719	1079
	2	1.06	124.79	43.1	102.8	F	964	1447
	3							
	4	0.64	4.23	1.8	3.4	A	1332	1998

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1087				606				
	2	966	241	0	2560	0.377	963	1087	0.0	0.6	2.324	A
	3	855	214	963	1715	0.499	851	0	0.0	1.0	4.400	A
	4	1248	312	459	1956	0.638	1241	1355	0.0	1.8	5.200	A
	5	82	21	1612	447	0.184	81	88	0.0	0.2	10.220	B
2	1	590	148	1084	955	0.618	584	0	0.0	1.6	9.966	A
	2	791	198	1071	1309	0.604	785	597	0.0	1.5	6.994	A
	3			966				890				
	4	1087	272	0	2471	0.440	1084	966	0.0	0.8	2.723	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1300				723				
	2	1148	287	0	2560	0.448	1147	1300	0.6	0.8	2.628	A
	3	1021	255	1147	1575	0.648	1018	0	1.0	1.9	6.810	A
	4	1491	373	548	1897	0.786	1483	1617	1.8	3.7	8.920	A
	5	98	24	1926	307	0.319	97	105	0.2	0.5	17.793	C
2	1	705	176	1298	832	0.848	692	0	1.6	4.9	24.866	C
	2	945	236	1277	1183	0.799	936	713	1.5	3.8	14.499	B
	3			1148				1065				
	4	1300	325	0	2471	0.526	1298	1148	0.8	1.2	3.227	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1550				833				
	2	1227	307	0	2560	0.479	1226	1550	0.8	0.9	2.785	A
	3	1251	313	1226	1515	0.826	1240	0	1.9	4.6	13.373	B
	4	1825	456	628	1843	0.991	1762	1838	3.7	19.6	32.840	D
	5	120	30	2271	153	0.785	111	119	0.5	2.6	78.944	F
2	1	863	216	1547	689	1.254	682	0	4.9	50.3	161.362	F
	2	1157	289	1410	1102	1.050	1069	819	3.8	25.8	62.642	F
	3			1227				1252				
	4	1550	387	0	2471	0.627	1547	1227	1.2	1.7	4.087	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1577				845				
	2	1230	308	0	2560	0.481	1230	1577	0.9	1.0	2.793	A
	3	1251	313	1230	1512	0.827	1250	0	4.6	4.8	14.451	B
	4	1825	456	632	1840	0.992	1796	1848	19.6	26.9	53.764	F
	5	120	30	2308	136	0.881	114	120	2.6	4.1	135.503	F
2	1	863	216	1576	672	1.285	671	0	50.3	98.3	391.284	F
	2	1157	289	1418	1097	1.055	1088	830	25.8	43.1	124.795	F
	3			1230				1275				
	4	1577	394	0	2471	0.638	1576	1230	1.7	1.8	4.229	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1377				791				
	2	1311	328	0	2560	0.512	1311	1377	1.0	1.1	2.971	A
	3	1021	255	1311	1451	0.704	1030	0	4.8	2.6	9.261	A
	4	1491	373	589	1869	0.797	1581	1752	26.9	4.4	16.713	C
	5	98	24	2056	249	0.394	112	114	4.1	0.7	29.751	D
2	1	705	176	1379	786	0.897	777	0	98.3	80.1	400.026	F
	2	945	236	1389	1114	0.848	1084	767	43.1	8.4	90.823	F
	3			1311				1162				
	4	1377	344	0	2471	0.557	1379	1311	1.8	1.3	3.474	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1102				663				
	2	1235	309	0	2560	0.482	1236	1102	1.1	1.0	2.805	A
	3	855	214	1236	1508	0.567	860	0	2.6	1.4	5.938	A
	4	1248	312	524	1913	0.653	1258	1572	4.4	2.0	5.813	A
	5	82	21	1681	416	0.197	84	100	0.7	0.3	11.340	B
2	1	590	148	1104	943	0.626	902	0	80.1	2.1	153.273	F
	2	791	198	1332	1149	0.689	815	674	8.4	2.4	11.853	B
	3			1235				912				
	4	1102	276	0	2471	0.446	1104	1235	1.3	0.9	2.776	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.62	0.57	1.03	1.45	1.50			N/A	N/A
	3	1.05	0.58	1.06	1.48	1.54			N/A	N/A
	4	1.81	0.30	1.56	2.95	3.69			N/A	N/A
	5	0.23	0.00	0.00	0.23	0.23			N/A	N/A
2	1	1.64	0.06	0.81	3.97	5.86			N/A	N/A
	2	1.54	0.13	1.26	2.82	3.66			N/A	N/A
	3									
	4	0.82	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.83	0.13	0.93	1.48	1.54			N/A	N/A
	3	1.92	0.05	0.52	5.04	7.97			N/A	N/A
	4	3.66	0.05	0.51	10.34	17.42			N/A	N/A
	5	0.48	0.04	0.41	1.28	1.43			N/A	N/A
2	1	4.91	0.08	1.56	13.51	20.43			N/A	N/A
	2	3.79	0.06	1.04	10.51	16.44			N/A	N/A
	3									
	4	1.16	0.06	0.77	2.42	3.40			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.94	0.03	0.26	0.94	0.94			N/A	N/A
	3	4.63	0.03	0.35	7.78	24.07			N/A	N/A
	4	19.61	0.28	9.86	50.39	69.83			N/A	N/A
	5	2.65	0.05	0.50	7.29	12.09			N/A	N/A
2	1	50.29	23.65	47.52	74.47	83.57			N/A	N/A
	2	25.75	3.09	20.36	51.74	64.18			N/A	N/A
	3									
	4	1.75	0.03	0.27	1.75	1.75			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.95	0.03	0.27	0.95	0.95			N/A	N/A
	3	4.85	0.03	0.31	4.85	15.80			N/A	N/A
	4	26.92	0.20	10.85	73.44	105.75			N/A	N/A
	5	4.14	0.08	1.11	10.99	16.16			N/A	N/A
2	1	98.26	57.63	95.26	133.95	146.58			N/A	N/A
	2	43.15	6.87	35.51	83.98	102.78			N/A	N/A
	3									
	4	1.83	0.03	0.27	1.83	1.83			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	1.08	0.57	1.03	1.45	1.50			N/A	N/A
	3	2.60	0.07	1.22	6.57	9.59			N/A	N/A
	4	4.36	0.05	0.46	12.20	22.32			N/A	N/A
	5	0.71	0.04	0.41	1.57	2.46			N/A	N/A
2	1	80.15	51.89	78.22	103.99	112.20			N/A	N/A
	2	8.37	0.09	2.22	23.38	35.09			N/A	N/A
	3									
	4	1.33	0.57	1.24	1.75	1.95			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.97	0.57	1.03	1.45	1.50			N/A	N/A
	3	1.41	0.04	0.41	3.66	6.48			N/A	N/A
	4	1.99	0.03	0.31	2.26	9.32			N/A	N/A
	5	0.26	0.03	0.29	0.52	1.46			N/A	N/A
2	1	2.12	0.03	0.29	2.12	3.53			N/A	N/A
	2	2.36	0.03	0.31	3.02	11.39			N/A	N/A
	3									
	4	0.85	0.11	0.92	1.34	1.34			N/A	N/A

D18 - 2042 | Local Plan + Committed + Site 1 | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	74.17	F
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	46.80	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	62.88	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D18	2042	Local Plan + Committed + Site 1	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1476	100.000
	4		ONE HOUR	✓	1469	100.000
	5		ONE HOUR	✓	119	100.000
2	1		ONE HOUR	✓	740	100.000
	2		ONE HOUR	✓	900	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)	
Junction 2	
	To
	1234
	From
	101840556
	200254646
	30000
	407275820

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	238	0	0	919	49
	3	0	406	0	998	72
	4	562	907	0	0	0
	5	48	43	0	28	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
From		1	2	3	4
	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.50	2.86	1.0	1.5	A	1102	1653
	3	1.11	177.72	90.2	159.1	F	1354	2032
	4	0.93	25.65	10.8	59.7	D	1348	2022
	5	0.84	108.44	3.6	15.6	F	109	164
2	1	1.09	164.42	40.5	88.2	F	679	1019
	2	0.81	15.12	4.0	19.0	C	826	1239
	3							
	4	0.58	3.60	1.4	2.3	A	1243	1865

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1036				634				
	2	899	225	21	2545	0.353	896	1015	0.0	0.5	2.201	A
	3	1111	278	917	1750	0.635	1104	0	0.0	1.7	5.625	A
	4	1106	276	571	1881	0.588	1100	1451	0.0	1.4	4.677	A
	5	90	22	1581	461	0.194	89	90	0.0	0.2	9.779	A
2	1	557	139	1012	996	0.559	552	0	0.0	1.2	8.062	A
	2	678	169	865	1436	0.472	674	699	0.0	0.9	4.786	A
	3			899				640				
	4	1015	254	0	2471	0.411	1012	899	0.0	0.7	2.534	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1238				758				
	2	1074	268	25	2543	0.422	1073	1213	0.5	0.7	2.472	A
	3	1327	332	1098	1612	0.823	1316	0	1.7	4.4	11.975	B
	4	1321	330	682	1807	0.731	1316	1733	1.4	2.7	7.407	A
	5	107	27	1889	323	0.331	106	108	0.2	0.5	16.735	C
2	1	665	166	1212	881	0.755	659	0	1.2	2.9	15.736	C
	2	809	202	1034	1332	0.607	807	837	0.9	1.5	6.931	A
	3			1074				766				
	4	1213	303	0	2471	0.491	1212	1074	0.7	1.0	2.936	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1454				906				
	2	1257	314	29	2540	0.495	1256	1425	0.7	1.0	2.827	A
	3	1625	406	1285	1470	1.105	1450	0	4.4	48.2	75.602	F
	4	1617	404	769	1750	0.924	1590	1967	2.7	9.5	20.296	C
	5	131	33	2237	168	0.780	123	122	0.5	2.6	70.948	F
2	1	815	204	1423	760	1.072	735	0	2.9	22.8	78.413	F
	2	991	248	1185	1239	0.800	982	973	1.5	3.8	13.782	B
	3			1257				910				
	4	1425	356	0	2471	0.576	1423	1257	1.0	1.4	3.529	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1472				919				
	2	1269	317	30	2539	0.500	1269	1442	1.0	1.0	2.861	A
	3	1625	406	1299	1460	1.113	1457	0	48.2	90.2	177.716	F
	4	1617	404	774	1746	0.926	1612	1982	9.5	10.8	25.652	D
	5	131	33	2264	156	0.840	127	123	2.6	3.6	108.444	F
2	1	815	204	1442	749	1.088	744	0	22.8	40.5	164.417	F
	2	991	248	1200	1230	0.806	990	986	3.8	4.0	15.117	C
	3			1269				921				
	4	1442	361	0	2471	0.584	1442	1269	1.4	1.4	3.597	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1318				800				
	2	1192	298	28	2540	0.469	1192	1290	1.0	0.9	2.696	A
	3	1327	332	1220	1519	0.873	1502	0	90.2	46.3	164.735	F
	4	1321	330	770	1748	0.755	1351	1953	10.8	3.3	9.908	A
	5	107	27	1999	274	0.390	119	122	3.6	0.7	25.106	D
2	1	665	166	1291	836	0.796	806	0	40.5	5.4	105.687	F
	2	809	202	1180	1243	0.651	817	918	4.0	1.9	8.771	A
	3			1192				805				
	4	1290	323	0	2471	0.522	1291	1192	1.4	1.1	3.143	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1096				644				
	2	920	230	21	2545	0.361	921	1075	0.9	0.6	2.239	A
	3	1111	278	943	1731	0.642	1289	0	46.3	1.9	12.680	B
	4	1106	276	637	1837	0.602	1113	1595	3.3	1.6	5.126	A
	5	90	22	1649	431	0.208	91	100	0.7	0.3	10.809	B
2	1	557	139	1076	959	0.581	573	0	5.4	1.4	9.734	A
	2	678	169	909	1409	0.481	682	740	1.9	1.0	5.063	A
	3			920				671				
	4	1075	269	0	2471	0.435	1076	920	1.1	0.8	2.655	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.55	0.55	1.01	1.41	1.46			N/A	N/A
	3	1.74	0.09	1.18	3.77	5.12			N/A	N/A
	4	1.44	0.55	1.33	1.90	2.07			N/A	N/A
	5	0.24	0.00	0.00	0.24	0.24			N/A	N/A
2	1	1.25	0.12	1.11	1.99	2.68			N/A	N/A
	2	0.90	0.56	1.02	1.42	1.47			N/A	N/A
	3									
	4	0.71	0.57	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.73	0.09	0.83	1.41	1.48			N/A	N/A
	3	4.41	0.05	0.71	12.57	20.81			N/A	N/A
	4	2.69	0.05	0.47	7.48	12.71			N/A	N/A
	5	0.49	0.04	0.42	1.28	1.41			N/A	N/A
2	1	2.89	0.05	0.74	7.94	12.59			N/A	N/A
	2	1.54	0.05	0.57	3.86	5.88			N/A	N/A
	3									
	4	0.98	0.07	0.84	1.76	2.26			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.98	0.03	0.26	0.98	0.98			N/A	N/A
	3	48.22	15.50	43.60	80.67	93.94			N/A	N/A
	4	9.55	0.05	0.80	27.73	48.75			N/A	N/A
	5	2.60	0.05	0.47	7.20	12.18			N/A	N/A
2	1	22.76	3.53	18.61	43.77	53.49			N/A	N/A
	2	3.78	0.03	0.32	5.63	19.01			N/A	N/A
	3									
	4	1.39	0.03	0.26	1.39	1.39			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	1.00	0.03	0.27	1.00	1.00			N/A	N/A
	3	90.22	38.04	84.58	139.95	159.06			N/A	N/A
	4	10.82	0.04	0.40	26.07	59.74			N/A	N/A
	5	3.60	0.06	1.01	9.98	15.59			N/A	N/A
2	1	40.55	9.22	35.02	73.68	88.15			N/A	N/A
	2	4.01	0.03	0.29	4.01	13.38			N/A	N/A
	3									
	4	1.43	0.03	0.27	1.43	1.43			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.90	0.56	1.01	1.41	1.46			N/A	N/A
	3	46.33	23.74	44.14	66.28	73.67			N/A	N/A
	4	3.28	0.05	0.50	9.21	15.42			N/A	N/A
	5	0.68	0.04	0.39	1.51	2.40			N/A	N/A
2	1	5.43	0.06	1.14	15.53	24.92			N/A	N/A
	2	1.95	0.07	1.04	4.70	6.77			N/A	N/A
	3									
	4	1.13	0.57	1.06	1.21	1.21			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.57	0.56	1.01	1.41	1.46			N/A	N/A
	3	1.87	0.03	0.28	1.87	3.70			N/A	N/A
	4	1.57	0.03	0.32	2.77	8.05			N/A	N/A
	5	0.27	0.03	0.28	0.60	1.49			N/A	N/A
2	1	1.42	0.03	0.28	1.42	3.88			N/A	N/A
	2	0.95	0.04	0.35	2.29	4.45			N/A	N/A
	3									
	4	0.80	0.27	0.98	1.43	1.49			N/A	N/A

D19 - 2042 | Local Plan + Committed + Site 1 + Site 2 | AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	31.27	D
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	150.87	F

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	84.01	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D19	2042	Local Plan + Committed + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1143	100.000
	4		ONE HOUR	✓	1661	100.000
	5		ONE HOUR	✓	109	100.000
2	1		ONE HOUR	✓	786	100.000
	2		ONE HOUR	✓	1079	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)

	To				
Junction 2		1	2	3	4
	1	0	171	0	615
	2	0	0	387	692
	3	0	0	0	0
	4	0	638	817	0

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	247	0	0	1012	57
	3	0	293	0	817	33
	4	527	1106	0	0	28
	5	45	64	0	0	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
From		1	2	3	4
	1	0	6	0	4
	2	0	0	3	3
	3	0	0	0	0
	4	0	3	7	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	5	0	0	3	0
	3	0	7	0	6	0
	4	3	5	0	0	0
	5	3	5	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.51	2.96	1.1	1.5	A	1197	1795
	3	0.83	14.63	4.9	24.9	B	1049	1573
	4	1.00	57.50	29.1	108.5	F	1524	2286
	5	0.91	144.59	4.6	17.2	F	100	150
2	1	1.30	423.46	101.6	149.9	F	721	1082
	2	1.08	150.88	54.4	114.2	F	990	1485
	3							
	4	0.64	4.26	1.9	3.5	A	1341	2012

Main Results for each time segment

07:45 - 08:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1095				610				
	2	975	244	0	2560	0.381	972	1095	0.0	0.6	2.335	A
	3	861	215	972	1708	0.504	856	0	0.0	1.1	4.460	A
	4	1250	313	469	1949	0.641	1243	1359	0.0	1.8	5.263	A
	5	82	21	1624	442	0.186	81	88	0.0	0.2	10.368	B
2	1	592	148	1092	950	0.623	585	0	0.0	1.7	10.113	B
	2	812	203	1071	1309	0.620	806	606	0.0	1.6	7.272	A
	3			975				902				
	4	1095	274	0	2471	0.443	1092	975	0.0	0.8	2.737	A

08:00 - 08:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1309				728				
	2	1157	289	0	2560	0.452	1157	1309	0.6	0.8	2.646	A
	3	1028	257	1157	1568	0.655	1024	0	1.1	2.0	6.971	A
	4	1493	373	559	1889	0.790	1486	1621	1.8	3.8	9.129	A
	5	98	24	1940	301	0.326	97	105	0.2	0.5	18.319	C
2	1	707	177	1307	827	0.855	693	0	1.7	5.1	25.817	D
	2	970	242	1276	1183	0.820	960	724	1.6	4.3	15.862	C
	3			1157				1078				
	4	1309	327	0	2471	0.529	1307	1157	0.8	1.2	3.248	A

08:15 - 08:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1557				834				
	2	1223	306	0	2560	0.478	1223	1557	0.8	0.9	2.778	A
	3	1258	315	1223	1518	0.829	1247	0	2.0	4.7	13.604	B
	4	1829	457	638	1836	0.996	1761	1832	3.8	20.8	34.341	D
	5	120	30	2280	149	0.808	111	119	0.5	2.9	84.676	F
2	1	865	216	1555	684	1.265	678	0	5.1	52.0	167.307	F
	2	1188	297	1403	1105	1.075	1080	829	4.3	31.2	71.912	F
	3			1223				1260				
	4	1557	389	0	2471	0.630	1555	1223	1.2	1.8	4.120	A

08:30 - 08:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1584				846				
	2	1224	306	0	2560	0.478	1224	1584	0.9	0.9	2.780	A
	3	1258	315	1224	1517	0.830	1258	0	4.7	4.9	14.632	B
	4	1829	457	641	1834	0.997	1795	1840	20.8	29.1	57.504	F
	5	120	30	2317	132	0.909	113	120	2.9	4.6	144.588	F
2	1	865	216	1584	668	1.296	667	0	52.0	101.6	406.704	F
	2	1188	297	1411	1101	1.079	1095	840	31.2	54.4	150.877	F
	3			1224				1282				
	4	1584	396	0	2471	0.641	1584	1224	1.8	1.9	4.265	A

08:45 - 09:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1392				797				
	2	1305	326	0	2560	0.510	1304	1392	0.9	1.1	2.956	A
	3	1028	257	1304	1456	0.706	1037	0	4.9	2.6	9.302	A
	4	1493	373	597	1864	0.801	1592	1744	29.1	4.5	18.309	C
	5	98	24	2076	240	0.408	113	113	4.6	0.8	32.772	D
2	1	707	177	1394	776	0.910	769	0	101.6	86.1	423.463	F
	2	970	242	1384	1117	0.868	1096	779	54.4	22.8	130.730	F
	3			1305				1176				
	4	1392	348	0	2471	0.563	1394	1305	1.9	1.4	3.524	A

09:00 - 09:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1110				678				
	2	1296	324	0	2560	0.506	1296	1110	1.1	1.1	2.939	A
	3	861	215	1296	1462	0.589	865	0	2.6	1.5	6.444	A
	4	1250	313	546	1898	0.659	1260	1615	4.5	2.1	5.976	A
	5	82	21	1704	406	0.202	84	102	0.8	0.3	11.709	B
2	1	592	148	1112	939	0.630	925	0	86.1	2.8	178.107	F
	2	812	203	1348	1139	0.713	893	689	22.8	2.7	19.890	C
	3			1296				945				
	4	1110	278	0	2471	0.449	1112	1296	1.4	0.9	2.792	A

Queue Variation Results for each time segment

07:45 - 08:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.63	0.57	1.03	1.45	1.50			N/A	N/A
	3	1.07	0.58	1.06	1.49	1.55			N/A	N/A
	4	1.84	0.27	1.05	3.02	3.82			N/A	N/A
	5	0.23	0.00	0.00	0.23	0.23			N/A	N/A
2	1	1.67	0.06	0.76	4.08	6.10			N/A	N/A
	2	1.65	0.11	1.26	3.21	4.28			N/A	N/A
	3									
	4	0.83	0.58	1.05	1.47	1.53			N/A	N/A

08:00 - 08:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.85	0.13	0.94	1.05	1.05			N/A	N/A
	3	1.97	0.05	0.52	5.20	8.23			N/A	N/A
	4	3.76	0.05	0.52	10.62	17.81			N/A	N/A
	5	0.49	0.04	0.42	1.30	1.44			N/A	N/A
2	1	5.13	0.08	1.21	14.07	21.13			N/A	N/A
	2	4.27	0.07	1.25	11.86	18.31			N/A	N/A
	3									
	4	1.17	0.06	0.77	2.49	3.52			N/A	N/A

08:15 - 08:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.94	0.03	0.26	0.94	0.94			N/A	N/A
	3	4.74	0.03	0.35	8.30	24.88			N/A	N/A
	4	20.80	0.37	11.32	52.19	71.33			N/A	N/A
	5	2.86	0.05	0.69	7.86	12.51			N/A	N/A
2	1	52.00	25.06	49.28	76.36	85.49			N/A	N/A
	2	31.18	6.08	26.33	58.13	70.21			N/A	N/A
	3									
	4	1.77	0.03	0.27	1.77	1.77			N/A	N/A

08:30 - 08:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.94	0.03	0.27	0.94	0.94			N/A	N/A
	3	4.94	0.03	0.31	4.94	16.35			N/A	N/A
	4	29.15	0.28	13.60	77.12	108.54			N/A	N/A
	5	4.60	0.10	1.59	11.96	17.20			N/A	N/A
2	1	101.61	60.68	98.66	137.35	149.90			N/A	N/A
	2	54.40	14.15	47.92	96.31	114.16			N/A	N/A
	3									
	4	1.86	0.03	0.27	1.86	1.86			N/A	N/A

08:45 - 09:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	1.07	0.57	1.03	1.45	1.50			N/A	N/A
	3	2.63	0.07	1.10	6.82	10.15			N/A	N/A
	4	4.49	0.05	0.46	12.50	23.03			N/A	N/A
	5	0.76	0.04	0.41	1.72	2.75			N/A	N/A
2	1	86.11	56.67	84.18	110.89	119.37			N/A	N/A
	2	22.82	3.59	18.70	43.80	53.51			N/A	N/A
	3									
	4	1.37	0.58	1.27	1.80	1.98			N/A	N/A

09:00 - 09:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	1.06	0.57	1.03	1.45	1.50			N/A	N/A
	3	1.54	0.04	0.43	4.05	7.05			N/A	N/A
	4	2.05	0.03	0.31	2.33	9.59			N/A	N/A
	5	0.27	0.03	0.29	0.52	1.45			N/A	N/A
2	1	2.79	0.03	0.30	2.79	9.79			N/A	N/A
	2	2.70	0.03	0.32	3.75	13.29			N/A	N/A
	3									
	4	0.86	0.11	0.92	1.44	1.44			N/A	N/A

D20 - 2042 | Local Plan + Committed + Site 1 + Site 2 | PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction type	Arm order	Junction Delay (s)	Junction LOS
1	Northern Rbt	Standard Roundabout	1, 2, 3, 4, 5	77.28	F
2	Southern Rbt	Standard Roundabout	1, 2, 3, 4	49.56	E

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	65.90	F

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D20	2042	Local Plan + Committed + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15	✓

Linked Arm Data

Junction	Arm	Feeding Junction	Feeding Arm	Link Type	Flow source	Uniform flow (PCU/hr)	Flow multiplier (%)	Internal storage space (PCU)
1	2	2	4	Queue limited	Normal	0	100.00	33.00
2	4	1	2	Queue limited	Normal	0	100.00	33.00

Demand overview (Traffic)

Junction	Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1	1					
	2	✓				
	3		ONE HOUR	✓	1491	100.000
	4		ONE HOUR	✓	1475	100.000
	5		ONE HOUR	✓	119	100.000
2	1		ONE HOUR	✓	737	100.000
	2		ONE HOUR	✓	866	100.000
	3					
	4	✓				

Origin-Destination Data

Demand (PCU/hr)	
Junction 2	
	To
	1234
	From
	101810556
	200229637
	30000
	406715820

Demand (PCU/hr)

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	241	0	0	923	49
	3	0	421	0	998	72
	4	562	913	0	0	0
	5	48	43	0	28	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

Junction 2

	To				
		1	2	3	4
From	1	0	2	0	0
	2	0	0	1	2
	3	0	0	0	0
	4	0	2	4	0

Heavy Vehicle %

Junction 1

	To					
		1	2	3	4	5
From	1	0	0	0	0	0
	2	1	0	0	1	0
	3	0	2	0	2	0
	4	1	3	0	0	0
	5	1	3	0	0	0

Results

Results Summary for whole modelled period

Junction	Arm	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
1	1							
	2	0.49	2.83	1.0	1.5	A	1094	1640
	3	1.12	181.35	92.8	162.0	F	1368	2052
	4	0.93	27.95	11.8	64.9	D	1353	2030
	5	0.89	130.47	4.3	17.4	F	109	164
2	1	1.10	176.88	43.6	91.0	F	676	1014
	2	0.79	14.12	3.6	16.3	B	795	1192
	3							
	4	0.59	3.67	1.5	2.5	A	1262	1894

Main Results for each time segment

16:45 - 17:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1052				633				
	2	892	223	21	2545	0.350	890	1031	0.0	0.5	2.192	A
	3	1123	281	910	1755	0.640	1115	0	0.0	1.8	5.675	A
	4	1110	278	582	1874	0.592	1105	1444	0.0	1.5	4.746	A
	5	90	22	1596	454	0.197	89	90	0.0	0.2	9.962	A
2	1	555	139	1028	987	0.562	550	0	0.0	1.3	8.181	A
	2	652	163	892	1419	0.460	649	685	0.0	0.9	4.734	A
	3			892				649				
	4	1031	258	0	2471	0.417	1028	892	0.0	0.7	2.560	A

17:00 - 17:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1256				758				
	2	1066	266	25	2543	0.419	1065	1231	0.5	0.7	2.458	A
	3	1340	335	1090	1619	0.828	1329	0	1.8	4.6	12.229	B
	4	1326	331	694	1799	0.737	1321	1725	1.5	2.8	7.609	A
	5	107	27	1908	315	0.339	106	107	0.2	0.5	17.375	C
2	1	663	166	1230	871	0.761	656	0	1.3	3.0	16.313	C
	2	779	195	1066	1312	0.593	776	820	0.9	1.5	6.799	A
	3			1066				777				
	4	1231	308	0	2471	0.498	1230	1066	0.7	1.0	2.981	A

17:15 - 17:30

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1472				903				
	2	1244	311	29	2540	0.490	1243	1443	0.7	1.0	2.801	A
	3	1642	410	1272	1481	1.109	1461	0	4.6	49.7	77.025	F
	4	1624	406	780	1742	0.932	1594	1952	2.8	10.3	21.557	C
	5	131	33	2253	161	0.816	121	121	0.5	3.0	79.757	F
2	1	811	203	1441	749	1.083	727	0	3.0	24.1	82.760	F
	2	953	238	1218	1219	0.782	946	950	1.5	3.4	13.027	B
	3			1244				920				
	4	1443	361	0	2471	0.584	1441	1244	1.0	1.4	3.590	A

17:30 - 17:45

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1491				916				
	2	1254	314	30	2539	0.494	1254	1462	1.0	1.0	2.827	A
	3	1642	410	1284	1471	1.116	1469	0	49.7	92.8	181.346	F
	4	1624	406	786	1738	0.934	1618	1967	10.3	11.8	27.946	D
	5	131	33	2282	148	0.886	125	122	3.0	4.3	130.472	F
2	1	811	203	1461	738	1.100	733	0	24.1	43.6	176.875	F
	2	953	238	1232	1210	0.788	953	963	3.4	3.6	14.121	B
	3			1254				931				
	4	1462	365	0	2471	0.591	1461	1254	1.4	1.5	3.667	A

17:45 - 18:00

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1340				803				
	2	1186	297	29	2540	0.467	1187	1311	1.0	0.9	2.688	A
	3	1340	335	1215	1523	0.880	1507	0	92.8	51.3	172.899	F
	4	1326	331	782	1741	0.762	1360	1940	11.8	3.4	10.449	B
	5	107	27	2021	265	0.404	121	121	4.3	0.7	27.878	D
2	1	663	166	1312	824	0.804	807	0	43.6	7.6	122.839	F
	2	779	195	1218	1219	0.639	786	901	3.6	1.8	8.584	A
	3			1186				817				
	4	1311	328	0	2471	0.530	1312	1186	1.5	1.2	3.198	A

18:00 - 18:15

Junction	Arm	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Throughput (exit side) (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
1	1			1119				646				
	2	919	230	21	2545	0.361	921	1097	0.9	0.6	2.240	A
	3	1123	281	942	1731	0.649	1320	0	51.3	1.9	14.843	B
	4	1110	278	657	1824	0.609	1118	1605	3.4	1.6	5.259	A
	5	90	22	1673	420	0.213	91	101	0.7	0.3	11.176	B
2	1	555	139	1099	946	0.586	579	0	7.6	1.5	10.493	B
	2	652	163	947	1385	0.471	656	731	1.8	0.9	5.048	A
	3			919				684				
	4	1097	274	0	2471	0.444	1099	919	1.2	0.8	2.703	A

Queue Variation Results for each time segment

16:45 - 17:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.54	0.54	1.01	1.41	1.46			N/A	N/A
	3	1.78	0.08	1.19	3.87	5.33			N/A	N/A
	4	1.47	0.54	1.36	1.94	2.33			N/A	N/A
	5	0.25	0.00	0.00	0.25	0.25			N/A	N/A
2	1	1.26	0.11	1.10	2.10	2.79			N/A	N/A
	2	0.86	0.56	1.02	1.42	1.48			N/A	N/A
	3									
	4	0.73	0.57	1.03	1.44	1.49			N/A	N/A

17:00 - 17:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.72	0.09	0.83	1.40	1.47			N/A	N/A
	3	4.55	0.06	0.80	12.98	21.32			N/A	N/A
	4	2.78	0.05	0.47	7.73	13.12			N/A	N/A
	5	0.51	0.04	0.43	1.31	1.44			N/A	N/A
2	1	2.97	0.06	0.78	8.18	12.92			N/A	N/A
	2	1.46	0.05	0.62	3.57	5.33			N/A	N/A
	3									
	4	1.01	0.07	0.84	1.85	2.50			N/A	N/A

17:15 - 17:30

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.96	0.03	0.26	0.96	0.96			N/A	N/A
	3	49.71	16.53	45.16	82.52	95.91			N/A	N/A
	4	10.28	0.06	1.22	30.03	50.82			N/A	N/A
	5	2.95	0.05	0.73	8.13	12.95			N/A	N/A
2	1	24.09	4.36	20.11	45.22	54.83			N/A	N/A
	2	3.43	0.03	0.31	4.12	16.32			N/A	N/A
	3									
	4	1.43	0.03	0.26	1.43	1.43			N/A	N/A

17:30 - 17:45

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.98	0.03	0.27	0.98	0.98			N/A	N/A
	3	92.85	40.08	87.28	142.88	162.01			N/A	N/A
	4	11.82	0.04	0.43	30.77	64.94			N/A	N/A
	5	4.35	0.08	1.06	11.73	17.44			N/A	N/A
2	1	43.61	11.47	38.43	76.83	91.01			N/A	N/A
	2	3.62	0.03	0.29	3.62	10.62			N/A	N/A
	3									
	4	1.48	0.03	0.27	1.48	1.48			N/A	N/A

17:45 - 18:00

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.89	0.56	1.01	1.41	1.46			N/A	N/A
	3	51.26	27.81	49.15	71.77	79.22			N/A	N/A
	4	3.41	0.05	0.49	9.60	16.19			N/A	N/A
	5	0.72	0.04	0.38	1.67	2.75			N/A	N/A
2	1	7.58	0.12	2.80	20.21	29.13			N/A	N/A
	2	1.84	0.07	1.10	4.25	6.01			N/A	N/A
	3									
	4	1.17	0.57	1.09	1.54	1.54			N/A	N/A

18:00 - 18:15

Junction	Arm	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1									
	2	0.57	0.56	1.01	1.41	1.46			N/A	N/A
	3	1.93	0.03	0.28	1.93	3.92			N/A	N/A
	4	1.61	0.03	0.32	2.75	8.24			N/A	N/A
	5	0.28	0.03	0.28	0.50	1.47			N/A	N/A
2	1	1.46	0.03	0.28	1.46	3.87			N/A	N/A
	2	0.91	0.04	0.37	2.20	4.03			N/A	N/A
	3									
	4	0.83	0.27	0.98	1.44	1.50			N/A	N/A

Appendix P

Junction Model Results (GTM Assessment)

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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Filename: Junction 1 - Wrotham Road_Site Access.j11

Path: C:\Users\MatthewJohnson\Hub Transport Planning Ltd\Hub Transport Planning - General\Projects\T25512
Wrotham Road, Meopham\Modelling\Picady

Report generation date: 27/05/2026 09:17:42

»D1 - 2032 | Reference Case + Site 1 | AM
»D2 - 2032 | Reference Case + Site 1 | PM
»D3 - 2032 | Reference Case + Site 1 + Site 2 | AM
»D4 - 2032 | Reference Case + Site 1 + Site 2 | PM
»D5 - 2042 | Local Plan + Site 1 | AM
»D6 - 2042 | Local Plan + Site 1 | PM
»D7 - 2042 | Local Plan + Site 1 + Site 2 | AM
»D8 - 2042 | Local Plan + Site 1 + Site 2 | PM

Summary of junction performance

	AM				PM			
	Set ID	Queue (PCU)	Delay (s)	RFC	Set ID	Queue (PCU)	Delay (s)	RFC
	2032 - Reference Case + Site 1							
Stream B-AC	D1	0.9	24.06	0.48	D2	0.3	17.39	0.26
Stream C-AB		0.0	7.59	0.02		0.1	7.58	0.05
	2032 - Reference Case + Site 1 + Site 2							
Stream B-AC	D3	0.9	23.90	0.48	D4	0.3	17.35	0.26
Stream C-AB		0.0	7.59	0.02		0.1	7.58	0.05
	2042 - Local Plan + Site 1							
Stream B-AC	D5	1.1	29.35	0.53	D6	0.4	18.43	0.27
Stream C-AB		0.0	8.15	0.02		0.1	7.69	0.06
	2042 - Local Plan + Site 1 + Site 2							
Stream B-AC	D7	1.1	29.47	0.53	D8	0.4	18.46	0.27
Stream C-AB		0.0	8.15	0.02		0.1	7.72	0.06

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	
Location	Wrotham Road/Site 1 Access
Site number	1
Date	09/04/2026
Version	
Status	(new file)
Identifier	MJ
Client	Richborough
Jobnumber	T25512
Enumerator	AzureAD\MatthewJohnson
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
PICADY 4.1			0.85	36.00	20.00

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Reference Case + Site 1	AM	ONE HOUR	07:45	09:15	15
D2	2032	Reference Case + Site 1	PM	ONE HOUR	16:45	18:15	15
D3	2032	Reference Case + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15
D4	2032	Reference Case + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15
D5	2042	Local Plan + Site 1	AM	ONE HOUR	07:45	09:15	15
D6	2042	Local Plan + Site 1	PM	ONE HOUR	16:45	18:15	15
D7	2042	Local Plan + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15
D8	2042	Local Plan + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

D1 - 2032 | Reference Case + Site 1 | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	2.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.01	A

Arms

Arms

Arm	Name	Description	Arm type
A	Wrotham Road N		Major
B	Site Access		Minor
C	Wrotham Road S		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Width for right-turn storage (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.40		✓	3.00	96.0	✓	5.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	3.72	36	79

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	566	0.101	0.256	0.161	0.366
B-C	722	0.109	0.275	-	-
C-B	684	0.261	0.261	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2032	Reference Case + Site 1	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	702	100.000
B		✓	124	100.000
C		✓	691	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	45	657
	B	95	0	29
	C	683	8	0

Vehicle Mix

Heavy Vehicle %

	To			
		A	B	C
	A	0	0	4
	B	0	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.48	24.06	0.9	C
C-AB	0.02	7.59	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	0.00	387	0.241	92	0.3	12.158	B
C-AB	6	0.00	547	0.011	6	0.0	6.657	A
C-A	514	0.00			514			
A-B	34	0.00			34			
A-C	495	0.00			495			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	0.00	345	0.323	111	0.5	15.334	C
C-AB	7	0.00	520	0.014	7	0.0	7.020	A
C-A	614	0.00			614			
A-B	40	0.00			40			
A-C	591	0.00			591			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	0.00	286	0.478	135	0.9	23.589	C
C-AB	9	0.00	483	0.018	9	0.0	7.591	A
C-A	752	0.00			752			
A-B	50	0.00			50			
A-C	723	0.00			723			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	0.00	286	0.478	136	0.9	24.056	C
C-AB	9	0.00	483	0.018	9	0.0	7.591	A
C-A	752	0.00			752			
A-B	50	0.00			50			
A-C	723	0.00			723			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	0.00	345	0.323	113	0.5	15.627	C
C-AB	7	0.00	520	0.014	7	0.0	7.023	A
C-A	614	0.00			614			
A-B	40	0.00			40			
A-C	591	0.00			591			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	0.00	387	0.241	94	0.3	12.315	B
C-AB	6	0.00	547	0.011	6	0.0	6.660	A
C-A	514	0.00			514			
A-B	34	0.00			34			
A-C	495	0.00			495			

D2 - 2032 | Reference Case + Site 1 | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	0.85	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.85	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2032	Reference Case + Site 1	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	646	100.000
B		✓	65	100.000
C		✓	822	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	89	557
	B	52	0	13
	C	800	22	0

Vehicle Mix

Heavy Vehicle %

	To			
From		A	B	C
	A	0	0	2
	B	0	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.26	17.39	0.3	C
C-AB	0.05	7.58	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	49	0.00	381	0.129	48	0.1	10.813	B
C-AB	17	0.00	558	0.030	16	0.0	6.649	A
C-A	602	0.00			602			
A-B	67	0.00			67			
A-C	419	0.00			419			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	58	0.00	338	0.173	58	0.2	12.842	B
C-AB	20	0.00	533	0.037	20	0.0	7.012	A
C-A	719	0.00			719			
A-B	80	0.00			80			
A-C	501	0.00			501			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	0.00	279	0.257	71	0.3	17.301	C
C-AB	24	0.00	499	0.049	24	0.1	7.580	A
C-A	881	0.00			881			
A-B	98	0.00			98			
A-C	613	0.00			613			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	0.00	279	0.257	72	0.3	17.386	C
C-AB	24	0.00	499	0.049	24	0.1	7.580	A
C-A	881	0.00			881			
A-B	98	0.00			98			
A-C	613	0.00			613			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	58	0.00	338	0.173	59	0.2	12.911	B
C-AB	20	0.00	533	0.037	20	0.0	7.014	A
C-A	719	0.00			719			
A-B	80	0.00			80			
A-C	501	0.00			501			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	49	0.00	381	0.129	49	0.1	10.867	B
C-AB	17	0.00	558	0.030	17	0.0	6.653	A
C-A	602	0.00			602			
A-B	67	0.00			67			
A-C	419	0.00			419			

D3 - 2032 | Reference Case + Site 1 + Site 2 | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	2.00	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.00	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2032	Reference Case + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	701	100.000
B		✓	124	100.000
C		✓	687	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	45	656
	B	95	0	29
	C	679	8	0

Vehicle Mix

Heavy Vehicle %

	To			
From		A	B	C
	A	0	0	4
	B	0	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.48	23.90	0.9	C
C-AB	0.02	7.59	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	0.00	388	0.241	92	0.3	12.131	B
C-AB	6	0.00	547	0.011	6	0.0	6.655	A
C-A	511	0.00			511			
A-B	34	0.00			34			
A-C	494	0.00			494			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	0.00	346	0.322	111	0.5	15.282	C
C-AB	7	0.00	520	0.014	7	0.0	7.016	A
C-A	610	0.00			610			
A-B	40	0.00			40			
A-C	590	0.00			590			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	0.00	287	0.476	135	0.9	23.439	C
C-AB	9	0.00	483	0.018	9	0.0	7.586	A
C-A	748	0.00			748			
A-B	50	0.00			50			
A-C	722	0.00			722			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	0.00	287	0.476	136	0.9	23.896	C
C-AB	9	0.00	483	0.018	9	0.0	7.586	A
C-A	748	0.00			748			
A-B	50	0.00			50			
A-C	722	0.00			722			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	0.00	346	0.322	113	0.5	15.573	C
C-AB	7	0.00	520	0.014	7	0.0	7.017	A
C-A	610	0.00			610			
A-B	40	0.00			40			
A-C	590	0.00			590			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	0.00	388	0.241	94	0.3	12.290	B
C-AB	6	0.00	547	0.011	6	0.0	6.658	A
C-A	511	0.00			511			
A-B	34	0.00			34			
A-C	494	0.00			494			

D4 - 2032 | Reference Case + Site 1 + Site 2 | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	0.85	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.85	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2032	Reference Case + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	647	100.000
B		✓	65	100.000
C		✓	818	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	89	558
	B	52	0	13
	C	796	22	0

Vehicle Mix

Heavy Vehicle %

	To			
From		A	B	C
	A	0	0	2
	B	0	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.26	17.35	0.3	C
C-AB	0.05	7.58	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	49	0.00	381	0.128	48	0.1	10.804	B
C-AB	17	0.00	557	0.030	16	0.0	6.652	A
C-A	599	0.00			599			
A-B	67	0.00			67			
A-C	420	0.00			420			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	58	0.00	339	0.173	58	0.2	12.827	B
C-AB	20	0.00	533	0.037	20	0.0	7.015	A
C-A	716	0.00			716			
A-B	80	0.00			80			
A-C	502	0.00			502			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	0.00	279	0.257	71	0.3	17.267	C
C-AB	24	0.00	499	0.049	24	0.1	7.585	A
C-A	876	0.00			876			
A-B	98	0.00			98			
A-C	614	0.00			614			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	0.00	279	0.257	72	0.3	17.351	C
C-AB	24	0.00	499	0.049	24	0.1	7.585	A
C-A	876	0.00			876			
A-B	98	0.00			98			
A-C	614	0.00			614			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	58	0.00	339	0.173	59	0.2	12.898	B
C-AB	20	0.00	533	0.037	20	0.0	7.020	A
C-A	716	0.00			716			
A-B	80	0.00			80			
A-C	502	0.00			502			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	49	0.00	381	0.128	49	0.1	10.859	B
C-AB	17	0.00	557	0.030	17	0.0	6.658	A
C-A	599	0.00			599			
A-B	67	0.00			67			
A-C	420	0.00			420			

D5 - 2042 | Local Plan + Site 1 | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	2.29	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.29	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2042	Local Plan + Site 1	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	815	100.000
B		✓	124	100.000
C		✓	679	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
From		A	B	C
	A	0	43	772
	B	91	0	33
	C	671	8	0

Vehicle Mix

Heavy Vehicle %

		To		
From		A	B	C
	A	0	0	3
	B	0	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.53	29.35	1.1	D
C-AB	0.02	8.15	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	0.00	371	0.252	92	0.3	12.856	B
C-AB	6	0.00	525	0.011	6	0.0	6.942	A
C-A	505	0.00			505			
A-B	32	0.00			32			
A-C	581	0.00			581			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	0.00	324	0.344	111	0.5	16.794	C
C-AB	7	0.00	493	0.015	7	0.0	7.402	A
C-A	603	0.00			603			
A-B	39	0.00			39			
A-C	694	0.00			694			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	0.00	259	0.528	134	1.0	28.461	D
C-AB	9	0.00	451	0.020	9	0.0	8.148	A
C-A	739	0.00			739			
A-B	47	0.00			47			
A-C	850	0.00			850			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	0.00	259	0.528	136	1.1	29.349	D
C-AB	9	0.00	451	0.020	9	0.0	8.148	A
C-A	739	0.00			739			
A-B	47	0.00			47			
A-C	850	0.00			850			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	0.00	324	0.344	114	0.5	17.250	C
C-AB	7	0.00	493	0.015	7	0.0	7.405	A
C-A	603	0.00			603			
A-B	39	0.00			39			
A-C	694	0.00			694			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	0.00	371	0.252	94	0.3	13.049	B
C-AB	6	0.00	525	0.011	6	0.0	6.942	A
C-A	505	0.00			505			
A-B	32	0.00			32			
A-C	581	0.00			581			

D6 - 2042 | Local Plan + Site 1 | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	0.87	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.87	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2042	Local Plan + Site 1	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	658	100.000
B		✓	65	100.000
C		✓	872	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
From		A	B	C
	A	0	83	575
	B	51	0	14
	C	847	25	0

Vehicle Mix

Heavy Vehicle %

		To		
From		A	B	C
	A	0	0	2
	B	0	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.27	18.43	0.4	C
C-AB	0.06	7.69	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	49	0.00	374	0.131	48	0.1	11.032	B
C-AB	19	0.00	555	0.034	19	0.0	6.706	A
C-A	638	0.00			638			
A-B	62	0.00			62			
A-C	433	0.00			433			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	58	0.00	330	0.177	58	0.2	13.251	B
C-AB	22	0.00	530	0.042	22	0.0	7.088	A
C-A	761	0.00			761			
A-B	75	0.00			75			
A-C	517	0.00			517			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	0.00	267	0.268	71	0.4	18.326	C
C-AB	28	0.00	496	0.056	27	0.1	7.689	A
C-A	933	0.00			933			
A-B	91	0.00			91			
A-C	633	0.00			633			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	0.00	267	0.268	72	0.4	18.433	C
C-AB	28	0.00	496	0.056	28	0.1	7.690	A
C-A	933	0.00			933			
A-B	91	0.00			91			
A-C	633	0.00			633			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	58	0.00	330	0.177	59	0.2	13.331	B
C-AB	22	0.00	530	0.042	23	0.0	7.090	A
C-A	761	0.00			761			
A-B	75	0.00			75			
A-C	517	0.00			517			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	49	0.00	374	0.131	49	0.2	11.091	B
C-AB	19	0.00	555	0.034	19	0.0	6.713	A
C-A	638	0.00			638			
A-B	62	0.00			62			
A-C	433	0.00			433			

D7 - 2042 | Local Plan + Site 1 + Site 2 | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	2.29	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.29	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D7	2042	Local Plan + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	815	100.000
B		✓	124	100.000
C		✓	682	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	43	772
	B	91	0	33
	C	674	8	0

Vehicle Mix

Heavy Vehicle %

	To			
From		A	B	C
	A	0	0	3
	B	0	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.53	29.47	1.1	D
C-AB	0.02	8.15	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	0.00	370	0.252	92	0.3	12.871	B
C-AB	6	0.00	525	0.011	6	0.0	6.942	A
C-A	507	0.00			507			
A-B	32	0.00			32			
A-C	581	0.00			581			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	0.00	324	0.344	111	0.5	16.824	C
C-AB	7	0.00	493	0.015	7	0.0	7.402	A
C-A	606	0.00			606			
A-B	39	0.00			39			
A-C	694	0.00			694			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	0.00	258	0.529	134	1.1	28.577	D
C-AB	9	0.00	451	0.020	9	0.0	8.148	A
C-A	742	0.00			742			
A-B	47	0.00			47			
A-C	850	0.00			850			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	137	0.00	258	0.529	136	1.1	29.475	D
C-AB	9	0.00	451	0.020	9	0.0	8.148	A
C-A	742	0.00			742			
A-B	47	0.00			47			
A-C	850	0.00			850			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	111	0.00	324	0.344	114	0.5	17.288	C
C-AB	7	0.00	493	0.015	7	0.0	7.405	A
C-A	606	0.00			606			
A-B	39	0.00			39			
A-C	694	0.00			694			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	93	0.00	370	0.252	94	0.3	13.065	B
C-AB	6	0.00	525	0.011	6	0.0	6.945	A
C-A	507	0.00			507			
A-B	32	0.00			32			
A-C	581	0.00			581			

D8 - 2042 | Local Plan + Site 1 + Site 2 | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	0.88	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.88	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D8	2042	Local Plan + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	660	100.000
B		✓	65	100.000
C		✓	869	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	83	577
	B	51	0	14
	C	843	26	0

Vehicle Mix

Heavy Vehicle %

	To			
From		A	B	C
	A	0	0	2
	B	0	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.27	18.46	0.4	C
C-AB	0.06	7.72	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	49	0.00	374	0.131	48	0.1	11.039	B
C-AB	20	0.00	555	0.035	19	0.0	6.721	A
C-A	635	0.00			635			
A-B	62	0.00			62			
A-C	434	0.00			434			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	58	0.00	329	0.177	58	0.2	13.262	B
C-AB	23	0.00	530	0.044	23	0.0	7.107	A
C-A	758	0.00			758			
A-B	75	0.00			75			
A-C	519	0.00			519			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	0.00	267	0.269	71	0.4	18.354	C
C-AB	29	0.00	495	0.058	29	0.1	7.716	A
C-A	928	0.00			928			
A-B	91	0.00			91			
A-C	635	0.00			635			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	72	0.00	267	0.269	72	0.4	18.464	C
C-AB	29	0.00	495	0.058	29	0.1	7.718	A
C-A	928	0.00			928			
A-B	91	0.00			91			
A-C	635	0.00			635			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	58	0.00	329	0.177	59	0.2	13.343	B
C-AB	23	0.00	530	0.044	23	0.0	7.109	A
C-A	758	0.00			758			
A-B	75	0.00			75			
A-C	519	0.00			519			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	49	0.00	374	0.131	49	0.2	11.098	B
C-AB	20	0.00	555	0.035	20	0.0	6.727	A
C-A	635	0.00			635			
A-B	62	0.00			62			
A-C	434	0.00			434			

Junctions 11

PICADY 11 - Priority Intersection Module

Version: 11.1.1.2424
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+44 (0)1344 379777 software@trl.co.uk trlsoftware.com

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Filename: Junction 2 - Wrotham Road_Longfield Road.j11

Path: C:\Users\MatthewJohnson\Hub Transport Planning Ltd\Hub Transport Planning - General\Projects\T25512
Wrotham Road, Meopham\Modelling\Picady

Report generation date: 27/05/2026 09:29:48

»D1 - 2032 | Reference Case | AM
»D2 - 2032 | Reference Case | PM
»D3 - 2032 | Reference Case + Site 1 | AM
»D4 - 2032 | Reference Case + Site 1 | PM
»D7 - 2032 | Reference Case + Site 1 + Site 2 | AM
»D8 - 2032 | Reference Case + Site 1 + Site 2 | PM
»D9 - 2042 | Local Plan | AM
»D10 - 2042 | Local Plan | PM
»D11 - 2042 | Local Plan + Site 1 | AM
»D12 - 2042 | Local Plan + Site 1 | PM
»D15 - 2042 | Local Plan + Site 1 + Site 2 | AM
»D16 - 2042 | Local Plan + Site 1 + Site 2 | PM

Summary of junction performance

	AM				PM			
	Set ID	Queue (PCU)	Delay (s)	RFC	Set ID	Queue (PCU)	Delay (s)	RFC
	2032 - Reference Case							
Stream B-C	D1	0.1	12.74	0.12	D2	0.1	10.28	0.07
Stream B-A		1.5	35.10	0.61		0.8	25.51	0.44
Stream C-AB		0.1	8.25	0.11		0.1	8.63	0.09
	2032 - Reference Case + Site 1							
Stream B-C	D3	0.1	12.91	0.12	D4	0.1	10.51	0.06
Stream B-A		1.6	36.22	0.62		0.8	27.31	0.46
Stream C-AB		0.2	8.42	0.13		0.1	8.81	0.10
	2032 - Reference Case + Site 1 + Site 2							
Stream B-C	D7	0.2	14.45	0.15	D8	0.1	10.88	0.06
Stream B-A		1.9	40.51	0.66		0.9	28.94	0.49
Stream C-AB		0.2	8.51	0.14		0.1	8.94	0.11
	2042 - Local Plan							
Stream B-C	D9	0.3	23.38	0.21	D10	0.0	14.71	0.02
Stream B-A		3.0	67.80	0.77		1.7	46.46	0.65
Stream C-AB		0.2	9.94	0.20		0.1	9.59	0.11
	2042 - Local Plan + Site 1							
Stream B-C	D11	0.3	24.87	0.23	D12	0.0	18.48	0.05
Stream B-A		3.1	70.97	0.78		2.3	56.88	0.72
Stream C-AB		0.3	10.02	0.22		0.1	9.66	0.11
	2042 - Local Plan + Site 1 + Site 2							
Stream B-C	D15	0.5	40.43	0.36	D16	0.1	22.90	0.07
Stream B-A		4.1	88.00	0.84		2.8	66.82	0.76
Stream C-AB		0.3	10.11	0.23		0.1	9.88	0.13

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

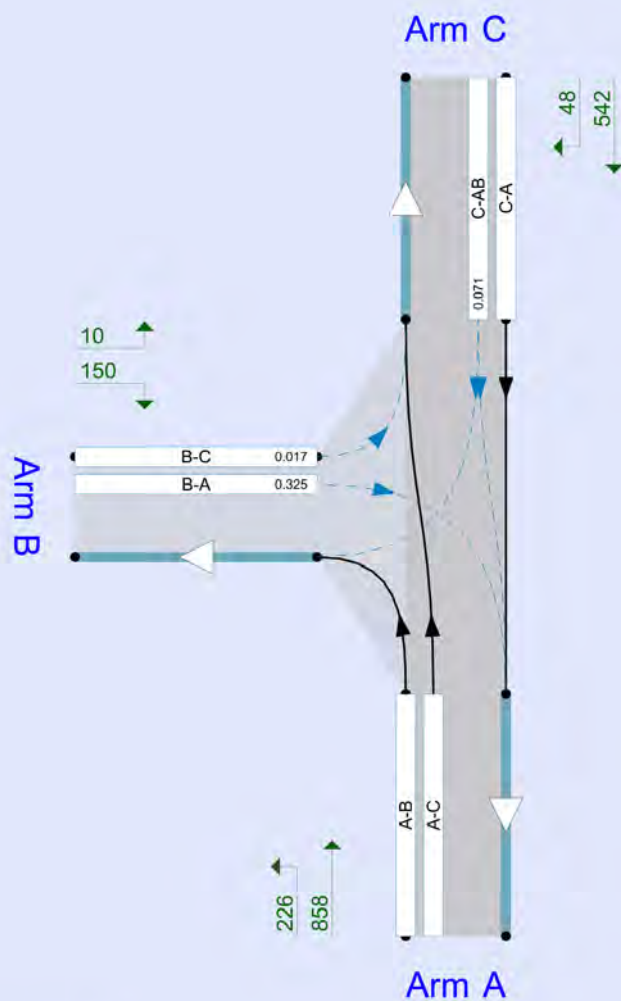
File summary

File Description

Title	
Location	Wrotham Road/Longfield Road
Site number	2
Date	09/04/2026
Version	
Status	(new file)
Identifier	MJ
Client	Richborough
Jobnumber	T25512
Enumerator	AzureAD\MatthewJohnson
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin



Flows show original traffic demand (PCU/hr)
Streams (downstream end) show RFC ()

The junction diagram reflects the last run of Junctions.

Analysis Options

PICADY short flare model	Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)	Use simulation for HCM roundabouts	Use iterations for HCM roundabouts
PICADY 4.1	5.75				✓		0.85	36.00	20.00		

Demand Set Summary

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2032	Reference Case	AM	ONE HOUR	07:45	09:15	15	✓
D2	2032	Reference Case	PM	ONE HOUR	16:45	18:15	15	✓
D3	2032	Reference Case + Site 1	AM	ONE HOUR	07:45	09:15	15	✓
D4	2032	Reference Case + Site 1	PM	ONE HOUR	16:45	18:15	15	✓
D5	2032	Reference Case + Site 2	AM	ONE HOUR	07:45	09:15	15	✓
D6	2032	Reference Case + Site 2	PM	ONE HOUR	16:45	18:15	15	✓
D7	2032	Reference Case + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15	✓
D8	2032	Reference Case + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15	✓
D9	2042	Local Plan	AM	ONE HOUR	07:45	09:15	15	✓
D10	2042	Local Plan	PM	ONE HOUR	16:45	18:15	15	✓
D11	2042	Local Plan + Site 1	AM	ONE HOUR	07:45	09:15	15	✓
D12	2042	Local Plan + Site 1	PM	ONE HOUR	16:45	18:15	15	✓
D13	2042	Local Plan + Site 2	AM	ONE HOUR	07:45	09:15	15	✓
D14	2042	Local Plan + Site 2	PM	ONE HOUR	16:45	18:15	15	✓
D15	2042	Local Plan + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15	✓
D16	2042	Local Plan + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

ID	Include in report	Use specific Demand Set(s)	Specific Demand Set(s)	Network flow scaling factor (%)	Network capacity scaling factor (%)
A1	✓	✓	D1,D2,D3,D4,D7,D8,D9,D10,D11,D12,D15,D16	100.000	100.000

D1 - 2032 | Reference Case | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	3.61	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.61	A

Arms

Arms

Arm	Name	Description	Arm type
A	Wrotham Road S		Major
B	Longfield Road		Minor
C	Wrotham Road N		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Width for right-turn storage (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	8.25		✓	3.30	113.1	✓	8.00

Geometries for Arm C are measured opposite Arm B. Geometries for Arm A (if relevant) are measured opposite Arm D.

Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B	One lane plus flare	10.00	6.90	4.60	3.40	2.90	✓	1.00	85	120

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	622	0.108	0.273	0.172	0.390
B-C	671	0.088	0.221	-	-
C-B	716	0.250	0.250	-	-

The slopes and intercepts shown above include custom intercept adjustments only.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2032	Reference Case	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	820	100.000
B		ONE HOUR	✓	182	100.000
C		ONE HOUR	✓	665	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	151	669
	B	147	0	35
From	C	616	49	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A	B	C
	A	0	0	3
	B	1	0	0
From	C	4	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.12	12.74	0.1	B	32	48
B-A	0.61	35.10	1.5	E	135	202
C-AB	0.11	8.25	0.1	A	45	67
C-A					565	848
A-B					139	208
A-C					614	921

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	26	7	0.00	498	0.053	26	0.0	0.1	7.629	A
B-A	111	28	0.00	378	0.292	109	0.0	0.4	13.420	B
C-AB	37	9	0.00	562	0.066	37	0.0	0.1	6.855	A
C-A	464	116	0.00			464				
A-B	114	28	0.00			114				
A-C	504	126	0.00			504				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	31	8	0.00	445	0.071	31	0.1	0.1	8.708	A
B-A	132	33	0.00	331	0.400	131	0.4	0.7	18.128	C
C-AB	44	11	0.00	532	0.083	44	0.1	0.1	7.384	A
C-A	554	138	0.00			554				
A-B	136	34	0.00			136				
A-C	601	150	0.00			601				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	39	10	0.00	328	0.118	38	0.1	0.1	12.441	B
B-A	162	40	0.00	265	0.612	159	0.7	1.5	33.337	D
C-AB	54	13	0.00	490	0.110	54	0.1	0.1	8.249	A
C-A	678	170	0.00			678				
A-B	166	42	0.00			166				
A-C	737	184	0.00			737				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	39	10	0.00	321	0.120	39	0.1	0.1	12.743	B
B-A	162	40	0.00	265	0.612	162	1.5	1.5	35.098	E
C-AB	54	13	0.00	490	0.110	54	0.1	0.1	8.254	A
C-A	678	170	0.00			678				
A-B	166	42	0.00			166				
A-C	737	184	0.00			737				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	31	8	0.00	440	0.072	32	0.1	0.1	8.825	A
B-A	132	33	0.00	331	0.400	135	1.5	0.7	18.913	C
C-AB	44	11	0.00	532	0.083	44	0.1	0.1	7.390	A
C-A	554	138	0.00			554				
A-B	136	34	0.00			136				
A-C	601	150	0.00			601				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	26	7	0.00	496	0.053	26	0.1	0.1	7.671	A
B-A	111	28	0.00	378	0.293	112	0.7	0.4	13.695	B
C-AB	37	9	0.00	562	0.066	37	0.1	0.1	6.863	A
C-A	464	116	0.00			464				
A-B	114	28	0.00			114				
A-C	504	126	0.00			504				

D2 - 2032 | Reference Case | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	1.91	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.91	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2032	Reference Case	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	941	100.000
B		ONE HOUR	✓	125	100.000
C		ONE HOUR	✓	564	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
From		A	B	C
	A	0	150	791
	B	100	0	25
	C	528	36	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

		To		
From		A	B	C
	A	0	1	3
	B	0	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.07	10.28	0.1	B	23	34
B-A	0.44	25.51	0.8	D	92	138
C-AB	0.09	8.63	0.1	A	33	50
C-A					485	727
A-B					138	206
A-C					726	1089

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	19	5	0.00	499	0.038	19	0.0	0.0	7.496	A
B-A	75	19	0.00	369	0.204	74	0.0	0.3	12.193	B
C-AB	27	7	0.00	539	0.050	27	0.0	0.1	7.030	A
C-A	398	99	0.00			398				
A-B	113	28	0.00			113				
A-C	596	149	0.00			596				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	0.00	457	0.049	22	0.0	0.1	8.288	A
B-A	90	22	0.00	319	0.282	89	0.3	0.4	15.625	C
C-AB	32	8	0.00	504	0.064	32	0.1	0.1	7.627	A
C-A	475	119	0.00			475				
A-B	135	34	0.00			135				
A-C	711	178	0.00			711				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	0.00	380	0.072	27	0.1	0.1	10.211	B
B-A	110	28	0.00	251	0.439	109	0.4	0.7	25.037	D
C-AB	40	10	0.00	457	0.087	40	0.1	0.1	8.627	A
C-A	581	145	0.00			581				
A-B	165	41	0.00			165				
A-C	871	218	0.00			871				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	0.00	378	0.073	28	0.1	0.1	10.275	B
B-A	110	28	0.00	251	0.439	110	0.7	0.8	25.510	D
C-AB	40	10	0.00	457	0.087	40	0.1	0.1	8.630	A
C-A	581	145	0.00			581				
A-B	165	41	0.00			165				
A-C	871	218	0.00			871				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	0.00	455	0.049	23	0.1	0.1	8.327	A
B-A	90	22	0.00	319	0.282	91	0.8	0.4	15.894	C
C-AB	32	8	0.00	504	0.064	32	0.1	0.1	7.630	A
C-A	475	119	0.00			475				
A-B	135	34	0.00			135				
A-C	711	178	0.00			711				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	19	5	0.00	498	0.038	19	0.1	0.0	7.515	A
B-A	75	19	0.00	368	0.204	76	0.4	0.3	12.327	B
C-AB	27	7	0.00	539	0.050	27	0.1	0.1	7.037	A
C-A	398	99	0.00			398				
A-B	113	28	0.00			113				
A-C	596	149	0.00			596				

D3 - 2032 | Reference Case + Site 1 | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	3.74	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.74	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2032	Reference Case + Site 1	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	812	100.000
B		ONE HOUR	✓	183	100.000
C		ONE HOUR	✓	687	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
From		A	B	C
	A	0	157	655
	B	147	0	36
	C	628	59	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

		To		
From		A	B	C
	A	0	1	3
	B	1	0	0
	C	4	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.12	12.91	0.1	B	33	50
B-A	0.62	36.22	1.6	E	135	202
C-AB	0.13	8.42	0.2	A	54	81
C-A					576	864
A-B					144	216
A-C					601	902

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	27	7	0.00	499	0.054	27	0.0	0.1	7.614	A
B-A	111	28	0.00	376	0.294	109	0.0	0.4	13.531	B
C-AB	44	11	0.00	563	0.079	44	0.0	0.1	6.932	A
C-A	473	118	0.00			473				
A-B	118	30	0.00			118				
A-C	493	123	0.00			493				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	0.00	446	0.073	32	0.1	0.1	8.702	A
B-A	132	33	0.00	328	0.403	131	0.4	0.7	18.368	C
C-AB	53	13	0.00	533	0.099	53	0.1	0.1	7.491	A
C-A	565	141	0.00			565				
A-B	141	35	0.00			141				
A-C	589	147	0.00			589				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	40	10	0.00	326	0.122	39	0.1	0.1	12.562	B
B-A	162	40	0.00	261	0.619	158	0.7	1.5	34.285	D
C-AB	65	16	0.00	492	0.132	65	0.1	0.2	8.422	A
C-A	691	173	0.00			691				
A-B	173	43	0.00			173				
A-C	721	180	0.00			721				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	40	10	0.00	319	0.124	40	0.1	0.1	12.906	B
B-A	162	40	0.00	261	0.619	162	1.5	1.6	36.219	E
C-AB	65	16	0.00	492	0.132	65	0.2	0.2	8.424	A
C-A	691	173	0.00			691				
A-B	173	43	0.00			173				
A-C	721	180	0.00			721				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	0.00	441	0.073	33	0.1	0.1	8.827	A
B-A	132	33	0.00	328	0.403	136	1.6	0.7	19.207	C
C-AB	53	13	0.00	533	0.099	53	0.2	0.1	7.499	A
C-A	565	141	0.00			565				
A-B	141	35	0.00			141				
A-C	589	147	0.00			589				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	27	7	0.00	497	0.054	27	0.1	0.1	7.657	A
B-A	111	28	0.00	376	0.294	112	0.7	0.4	13.814	B
C-AB	44	11	0.00	563	0.079	45	0.1	0.1	6.946	A
C-A	473	118	0.00			473				
A-B	118	30	0.00			118				
A-C	493	123	0.00			493				

D4 - 2032 | Reference Case + Site 1 | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	2.06	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.06	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2032	Reference Case + Site 1	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	952	100.000
B		ONE HOUR	✓	124	100.000
C		ONE HOUR	✓	570	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	151	801
	B	103	0	21
	C	529	41	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From		A	B	C
	A	0	1	3
	B	1	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.06	10.51	0.1	B	19	29
B-A	0.46	27.31	0.8	D	95	142
C-AB	0.10	8.81	0.1	A	38	56
C-A					485	728
A-B					139	208
A-C					735	1103

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	0.00	493	0.032	16	0.0	0.0	7.536	A
B-A	78	19	0.00	366	0.212	76	0.0	0.3	12.523	B
C-AB	31	8	0.00	537	0.058	31	0.0	0.1	7.111	A
C-A	398	100	0.00			398				
A-B	114	28	0.00			114				
A-C	603	151	0.00			603				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	19	5	0.00	450	0.042	19	0.0	0.0	8.353	A
B-A	93	23	0.00	316	0.293	92	0.3	0.4	16.220	C
C-AB	37	9	0.00	502	0.073	37	0.1	0.1	7.740	A
C-A	476	119	0.00			476				
A-B	136	34	0.00			136				
A-C	720	180	0.00			720				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	23	6	0.00	368	0.063	23	0.0	0.1	10.435	B
B-A	113	28	0.00	246	0.461	112	0.4	0.8	26.713	D
C-AB	45	11	0.00	454	0.100	45	0.1	0.1	8.806	A
C-A	582	146	0.00			582				
A-B	166	42	0.00			166				
A-C	882	220	0.00			882				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	23	6	0.00	366	0.063	23	0.1	0.1	10.513	B
B-A	113	28	0.00	246	0.461	113	0.8	0.8	27.309	D
C-AB	45	11	0.00	454	0.100	45	0.1	0.1	8.811	A
C-A	582	146	0.00			582				
A-B	166	42	0.00			166				
A-C	882	220	0.00			882				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	19	5	0.00	448	0.042	19	0.1	0.0	8.396	A
B-A	93	23	0.00	316	0.293	94	0.8	0.4	16.541	C
C-AB	37	9	0.00	502	0.073	37	0.1	0.1	7.747	A
C-A	476	119	0.00			476				
A-B	136	34	0.00			136				
A-C	720	180	0.00			720				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	0.00	492	0.032	16	0.0	0.0	7.560	A
B-A	78	19	0.00	366	0.212	78	0.4	0.3	12.673	B
C-AB	31	8	0.00	537	0.058	31	0.1	0.1	7.121	A
C-A	398	100	0.00			398				
A-B	114	28	0.00			114				
A-C	603	151	0.00			603				

D7 - 2032 | Reference Case + Site 1 + Site 2 | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	4.40	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.40	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2032	Reference Case + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	816	100.000
B		ONE HOUR	✓	198	100.000
C		ONE HOUR	✓	685	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
From		A	B	C
	A	0	170	646
	B	157	0	41
	C	623	62	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

		To		
From		A	B	C
	A	0	1	3
	B	1	0	0
	C	4	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.15	14.45	0.2	B	38	56
B-A	0.66	40.51	1.9	E	144	216
C-AB	0.14	8.51	0.2	A	57	85
C-A					572	858
A-B					156	234
A-C					593	889

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	31	8	0.00	496	0.062	31	0.0	0.1	7.736	A
B-A	118	30	0.00	376	0.314	116	0.0	0.5	13.898	B
C-AB	47	12	0.00	562	0.083	46	0.0	0.1	6.973	A
C-A	469	117	0.00			469				
A-B	128	32	0.00			128				
A-C	486	122	0.00			486				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	37	9	0.00	438	0.084	37	0.1	0.1	8.975	A
B-A	141	35	0.00	328	0.430	140	0.5	0.7	19.198	C
C-AB	56	14	0.00	532	0.105	56	0.1	0.1	7.548	A
C-A	560	140	0.00			560				
A-B	153	38	0.00			153				
A-C	581	145	0.00			581				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	45	11	0.00	304	0.149	45	0.1	0.2	13.885	B
B-A	173	43	0.00	261	0.661	169	0.7	1.8	37.697	E
C-AB	68	17	0.00	491	0.139	68	0.1	0.2	8.505	A
C-A	686	171	0.00			686				
A-B	187	47	0.00			187				
A-C	711	178	0.00			711				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	45	11	0.00	294	0.153	45	0.2	0.2	14.449	B
B-A	173	43	0.00	261	0.662	172	1.8	1.9	40.507	E
C-AB	68	17	0.00	491	0.139	68	0.2	0.2	8.512	A
C-A	686	171	0.00			686				
A-B	187	47	0.00			187				
A-C	711	178	0.00			711				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	37	9	0.00	431	0.086	37	0.2	0.1	9.148	A
B-A	141	35	0.00	328	0.430	145	1.9	0.8	20.320	C
C-AB	56	14	0.00	532	0.105	56	0.2	0.1	7.556	A
C-A	560	140	0.00			560				
A-B	153	38	0.00			153				
A-C	581	145	0.00			581				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	31	8	0.00	493	0.063	31	0.1	0.1	7.789	A
B-A	118	30	0.00	376	0.314	119	0.8	0.5	14.233	B
C-AB	47	12	0.00	562	0.083	47	0.1	0.1	6.984	A
C-A	469	117	0.00			469				
A-B	128	32	0.00			128				
A-C	486	122	0.00			486				

D8 - 2032 | Reference Case + Site 1 + Site 2 | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	2.27	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.27	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2032	Reference Case + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	961	100.000
B		ONE HOUR	✓	129	100.000
C		ONE HOUR	✓	570	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
From		A	B	C
	A	0	163	798
	B	109	0	20
	C	526	44	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From		A	B	C
	A	0	1	3
	B	1	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.06	10.88	0.1	B	18	28
B-A	0.49	28.94	0.9	D	100	150
C-AB	0.11	8.94	0.1	A	40	61
C-A					483	724
A-B					150	224
A-C					732	1098

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	0.00	489	0.031	15	0.0	0.0	7.586	A
B-A	82	21	0.00	365	0.225	81	0.0	0.3	12.733	B
C-AB	33	8	0.00	535	0.062	33	0.0	0.1	7.167	A
C-A	396	99	0.00			396				
A-B	123	31	0.00			123				
A-C	601	150	0.00			601				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	4	0.00	444	0.040	18	0.0	0.0	8.447	A
B-A	98	24	0.00	315	0.311	97	0.3	0.4	16.658	C
C-AB	40	10	0.00	500	0.079	39	0.1	0.1	7.820	A
C-A	473	118	0.00			473				
A-B	147	37	0.00			147				
A-C	717	179	0.00			717				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	0.00	356	0.062	22	0.0	0.1	10.774	B
B-A	120	30	0.00	245	0.489	118	0.4	0.9	28.184	D
C-AB	48	12	0.00	451	0.107	48	0.1	0.1	8.932	A
C-A	579	145	0.00			579				
A-B	179	45	0.00			179				
A-C	879	220	0.00			879				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	0.00	353	0.062	22	0.1	0.1	10.876	B
B-A	120	30	0.00	245	0.489	120	0.9	0.9	28.940	D
C-AB	48	12	0.00	451	0.107	48	0.1	0.1	8.937	A
C-A	579	145	0.00			579				
A-B	179	45	0.00			179				
A-C	879	220	0.00			879				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	4	0.00	442	0.041	18	0.1	0.0	8.498	A
B-A	98	24	0.00	315	0.311	100	0.9	0.5	17.048	C
C-AB	40	10	0.00	500	0.079	40	0.1	0.1	7.826	A
C-A	473	118	0.00			473				
A-B	147	37	0.00			147				
A-C	717	179	0.00			717				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	0.00	488	0.031	15	0.0	0.0	7.611	A
B-A	82	21	0.00	365	0.225	83	0.5	0.3	12.902	B
C-AB	33	8	0.00	535	0.062	33	0.1	0.1	7.175	A
C-A	396	99	0.00			396				
A-B	123	31	0.00			123				
A-C	601	150	0.00			601				

D9 - 2042 | Local Plan | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	6.37	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.37	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2042	Local Plan	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	943	100.000
B		ONE HOUR	✓	192	100.000
C		ONE HOUR	✓	785	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
From		A	B	C
	A	0	290	653
	B	156	0	36
	C	703	82	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

		To		
From		A	B	C
	A	0	1	3
	B	1	0	0
	C	3	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.21	23.38	0.3	C	33	50
B-A	0.77	67.80	3.0	F	143	215
C-AB	0.20	9.94	0.2	A	75	113
C-A					645	968
A-B					266	399
A-C					599	899

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	27	7	0.00	480	0.056	27	0.0	0.1	7.941	A
B-A	117	29	0.00	350	0.336	115	0.0	0.5	15.407	C
C-AB	62	15	0.00	538	0.115	61	0.0	0.1	7.613	A
C-A	529	132	0.00			529				
A-B	218	55	0.00			218				
A-C	492	123	0.00			492				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	0.00	410	0.079	32	0.1	0.1	9.525	A
B-A	140	35	0.00	296	0.474	139	0.5	0.9	22.884	C
C-AB	74	18	0.00	504	0.146	74	0.1	0.2	8.443	A
C-A	632	158	0.00			632				
A-B	261	65	0.00			261				
A-C	587	147	0.00			587				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	40	10	0.00	218	0.182	39	0.1	0.2	20.066	C
B-A	172	43	0.00	222	0.774	164	0.9	2.7	57.379	F
C-AB	90	23	0.00	456	0.198	90	0.2	0.2	9.921	A
C-A	774	194	0.00			774				
A-B	319	80	0.00			319				
A-C	719	180	0.00			719				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	40	10	0.00	193	0.205	39	0.2	0.3	23.383	C
B-A	172	43	0.00	222	0.775	171	2.7	3.0	67.803	F
C-AB	90	23	0.00	456	0.198	90	0.2	0.2	9.936	A
C-A	774	194	0.00			774				
A-B	319	80	0.00			319				
A-C	719	180	0.00			719				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	0.00	395	0.082	33	0.3	0.1	9.949	A
B-A	140	35	0.00	296	0.474	148	3.0	1.0	25.845	D
C-AB	74	18	0.00	504	0.146	74	0.2	0.2	8.464	A
C-A	632	158	0.00			632				
A-B	261	65	0.00			261				
A-C	587	147	0.00			587				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	27	7	0.00	477	0.057	27	0.1	0.1	8.013	A
B-A	117	29	0.00	349	0.336	119	1.0	0.5	15.908	C
C-AB	62	15	0.00	538	0.115	62	0.2	0.1	7.636	A
C-A	529	132	0.00			529				
A-B	218	55	0.00			218				
A-C	492	123	0.00			492				

D10 - 2042 | Local Plan | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	3.58	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.58	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2042	Local Plan	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1069	100.000
B		ONE HOUR	✓	133	100.000
C		ONE HOUR	✓	601	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	217	852
	B	129	0	4
	C	559	42	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From		A	B	C
	A	0	1	3
	B	2	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	14.71	0.0	B	4	6
B-A	0.65	46.46	1.7	E	118	178
C-AB	0.11	9.59	0.1	A	39	58
C-A					513	769
A-B					199	299
A-C					782	1173

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	3	0.75	0.00	457	0.007	3	0.0	0.0	7.937	A
B-A	97	24	0.00	350	0.278	96	0.0	0.4	14.359	B
C-AB	32	8	0.00	515	0.061	31	0.0	0.1	7.446	A
C-A	421	105	0.00			421				
A-B	163	41	0.00			163				
A-C	641	160	0.00			641				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.90	0.00	398	0.009	4	0.0	0.0	9.119	A
B-A	116	29	0.00	295	0.393	115	0.4	0.6	20.254	C
C-AB	38	9	0.00	476	0.079	38	0.1	0.1	8.222	A
C-A	503	126	0.00			503				
A-B	195	49	0.00			195				
A-C	766	191	0.00			766				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	0.00	259	0.017	4	0.0	0.0	14.124	B
B-A	142	36	0.00	220	0.646	138	0.6	1.6	42.965	E
C-AB	46	12	0.00	421	0.110	46	0.1	0.1	9.583	A
C-A	615	154	0.00			615				
A-B	239	60	0.00			239				
A-C	938	235	0.00			938				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	0.00	249	0.018	4	0.0	0.0	14.714	B
B-A	142	36	0.00	220	0.646	142	1.6	1.7	46.455	E
C-AB	46	12	0.00	421	0.110	46	0.1	0.1	9.594	A
C-A	615	154	0.00			615				
A-B	239	60	0.00			239				
A-C	938	235	0.00			938				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.90	0.00	392	0.009	4	0.0	0.0	9.259	A
B-A	116	29	0.00	295	0.393	120	1.7	0.7	21.456	C
C-AB	38	9	0.00	476	0.079	38	0.1	0.1	8.230	A
C-A	503	126	0.00			503				
A-B	195	49	0.00			195				
A-C	766	191	0.00			766				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	3	0.75	0.00	455	0.007	3	0.0	0.0	7.970	A
B-A	97	24	0.00	350	0.278	98	0.7	0.4	14.666	B
C-AB	32	8	0.00	515	0.061	32	0.1	0.1	7.458	A
C-A	421	105	0.00			421				
A-B	163	41	0.00			163				
A-C	641	160	0.00			641				

D11 - 2042 | Local Plan + Site 1 | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	6.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.71	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2042	Local Plan + Site 1	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	931	100.000
B		ONE HOUR	✓	195	100.000
C		ONE HOUR	✓	805	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	291	640
	B	156	0	39
	C	714	91	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From		A	B	C
	A	0	0	3
	B	1	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.23	24.87	0.3	C	36	54
B-A	0.78	70.97	3.1	F	143	215
C-AB	0.22	10.02	0.3	B	84	125
C-A					655	983
A-B					267	401
A-C					587	881

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	29	7	0.00	482	0.061	29	0.0	0.1	7.939	A
B-A	117	29	0.00	348	0.338	115	0.0	0.5	15.528	C
C-AB	69	17	0.00	541	0.127	68	0.0	0.1	7.606	A
C-A	538	134	0.00			538				
A-B	219	55	0.00			219				
A-C	482	120	0.00			482				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	35	9	0.00	412	0.085	35	0.1	0.1	9.551	A
B-A	140	35	0.00	294	0.477	139	0.5	0.9	23.197	C
C-AB	82	20	0.00	507	0.162	82	0.1	0.2	8.468	A
C-A	642	160	0.00			642				
A-B	262	65	0.00			262				
A-C	575	144	0.00			575				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	43	11	0.00	214	0.201	42	0.1	0.2	20.890	C
B-A	172	43	0.00	219	0.784	164	0.9	2.8	59.381	F
C-AB	100	25	0.00	459	0.218	100	0.2	0.3	10.001	B
C-A	786	197	0.00			786				
A-B	320	80	0.00			320				
A-C	705	176	0.00			705				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	43	11	0.00	187	0.229	43	0.2	0.3	24.870	C
B-A	172	43	0.00	219	0.784	170	2.8	3.1	70.973	F
C-AB	100	25	0.00	459	0.218	100	0.3	0.3	10.019	B
C-A	786	197	0.00			786				
A-B	320	80	0.00			320				
A-C	705	176	0.00			705				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	35	9	0.00	396	0.089	36	0.3	0.1	10.015	B
B-A	140	35	0.00	294	0.477	149	3.1	1.0	26.419	D
C-AB	82	20	0.00	507	0.162	82	0.3	0.2	8.490	A
C-A	642	160	0.00			642				
A-B	262	65	0.00			262				
A-C	575	144	0.00			575				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	29	7	0.00	479	0.061	29	0.1	0.1	8.014	A
B-A	117	29	0.00	347	0.338	119	1.0	0.5	16.048	C
C-AB	69	17	0.00	541	0.127	69	0.2	0.1	7.630	A
C-A	538	134	0.00			538				
A-B	219	55	0.00			219				
A-C	482	120	0.00			482				

D12 - 2042 | Local Plan + Site 1 | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	4.77	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.77	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2042	Local Plan + Site 1	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1075	100.000
B		ONE HOUR	✓	151	100.000
C		ONE HOUR	✓	589	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	213	862
	B	142	0	9
	C	546	43	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From		A	B	C
	A	0	1	3
	B	2	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.05	18.48	0.0	C	8	12
B-A	0.72	56.88	2.3	F	130	195
C-AB	0.11	9.66	0.1	A	39	59
C-A					501	752
A-B					195	293
A-C					791	1186

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	0.00	451	0.015	7	0.0	0.0	8.105	A
B-A	107	27	0.00	349	0.307	105	0.0	0.4	14.991	B
C-AB	32	8	0.00	513	0.063	32	0.0	0.1	7.476	A
C-A	411	103	0.00			411				
A-B	160	40	0.00			160				
A-C	649	162	0.00			649				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	0.00	386	0.021	8	0.0	0.0	9.531	A
B-A	128	32	0.00	294	0.434	126	0.4	0.8	21.742	C
C-AB	39	10	0.00	474	0.082	39	0.1	0.1	8.261	A
C-A	491	123	0.00			491				
A-B	191	48	0.00			191				
A-C	775	194	0.00			775				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	0.00	221	0.045	10	0.0	0.0	17.053	C
B-A	156	39	0.00	219	0.715	151	0.8	2.1	50.535	F
C-AB	47	12	0.00	420	0.113	47	0.1	0.1	9.657	A
C-A	601	150	0.00			601				
A-B	235	59	0.00			235				
A-C	949	237	0.00			949				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	0.00	205	0.048	10	0.0	0.0	18.476	C
B-A	156	39	0.00	219	0.715	156	2.1	2.3	56.879	F
C-AB	47	12	0.00	420	0.113	47	0.1	0.1	9.665	A
C-A	601	150	0.00			601				
A-B	235	59	0.00			235				
A-C	949	237	0.00			949				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	0.00	376	0.021	8	0.0	0.0	9.777	A
B-A	128	32	0.00	294	0.434	134	2.3	0.8	23.676	C
C-AB	39	10	0.00	474	0.082	39	0.1	0.1	8.271	A
C-A	491	123	0.00			491				
A-B	191	48	0.00			191				
A-C	775	194	0.00			775				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	0.00	448	0.015	7	0.0	0.0	8.154	A
B-A	107	27	0.00	348	0.307	108	0.8	0.5	15.376	C
C-AB	32	8	0.00	513	0.063	32	0.1	0.1	7.484	A
C-A	411	103	0.00			411				
A-B	160	40	0.00			160				
A-C	649	162	0.00			649				

D15 - 2042 | Local Plan + Site 1 + Site 2 | AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	8.93	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	8.93	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D15	2042	Local Plan + Site 1 + Site 2	AM	ONE HOUR	07:45	09:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	927	100.000
B		ONE HOUR	✓	210	100.000
C		ONE HOUR	✓	805	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A	B	C
	A	0	289	638
	B	166	0	44
	C	710	95	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
From		A	B	C
	A	0	0	3
	B	1	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.36	40.43	0.5	E	40	61
B-A	0.84	88.00	4.1	F	152	228
C-AB	0.23	10.11	0.3	B	87	131
C-A					652	977
A-B					265	398
A-C					585	878

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	33	8	0.00	477	0.069	33	0.0	0.1	8.099	A
B-A	125	31	0.00	347	0.360	123	0.0	0.6	16.052	C
C-AB	72	18	0.00	541	0.132	71	0.0	0.2	7.643	A
C-A	535	134	0.00			535				
A-B	218	54	0.00			218				
A-C	480	120	0.00			480				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	40	10	0.00	400	0.099	39	0.1	0.1	9.996	A
B-A	149	37	0.00	293	0.509	147	0.6	1.0	24.629	C
C-AB	85	21	0.00	507	0.168	85	0.2	0.2	8.522	A
C-A	638	160	0.00			638				
A-B	260	65	0.00			260				
A-C	574	143	0.00			574				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	48	12	0.00	175	0.277	47	0.1	0.4	28.068	D
B-A	183	46	0.00	218	0.838	173	1.0	3.5	68.944	F
C-AB	105	26	0.00	461	0.227	104	0.2	0.3	10.092	B
C-A	782	195	0.00			782				
A-B	318	80	0.00			318				
A-C	702	176	0.00			702				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	48	12	0.00	136	0.356	48	0.4	0.5	40.433	E
B-A	183	46	0.00	218	0.840	180	3.5	4.1	88.003	F
C-AB	105	26	0.00	461	0.227	105	0.3	0.3	10.112	B
C-A	782	195	0.00			782				
A-B	318	80	0.00			318				
A-C	702	176	0.00			702				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	40	10	0.00	376	0.105	41	0.5	0.1	10.786	B
B-A	149	37	0.00	293	0.509	161	4.1	1.1	29.734	D
C-AB	85	21	0.00	507	0.168	86	0.3	0.2	8.545	A
C-A	638	160	0.00			638				
A-B	260	65	0.00			260				
A-C	574	143	0.00			574				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	33	8	0.00	473	0.070	33	0.1	0.1	8.195	A
B-A	125	31	0.00	347	0.360	127	1.1	0.6	16.690	C
C-AB	72	18	0.00	541	0.132	72	0.2	0.2	7.667	A
C-A	535	134	0.00			535				
A-B	218	54	0.00			218				
A-C	480	120	0.00			480				

D16 - 2042 | Local Plan + Site 1 + Site 2 | PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way	5.85	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.85	A

Traffic Demand

Demand Set Details

ID	Year	Scenario	Time period	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D16	2042	Local Plan + Site 1 + Site 2	PM	ONE HOUR	16:45	18:15	15	✓

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		ONE HOUR	✓	1084	100.000
B		ONE HOUR	✓	160	100.000
C		ONE HOUR	✓	590	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	226	858
	B	150	0	10
	C	542	48	0

Vehicle Mix

HV data entry mode	PCU Factor for a HV (PCU)
HV Percentages	2.00

Heavy Vehicle %

	To			
		A	B	C
	A	0	1	3
	B	2	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.07	22.90	0.1	C	9	14
B-A	0.76	66.82	2.8	F	138	206
C-AB	0.13	9.88	0.1	A	44	66
C-A					497	746
A-B					207	311
A-C					787	1181

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	0.00	446	0.017	7	0.0	0.0	8.204	A
B-A	113	28	0.00	347	0.325	111	0.0	0.5	15.421	C
C-AB	36	9	0.00	512	0.071	36	0.0	0.1	7.558	A
C-A	408	102	0.00			408				
A-B	170	43	0.00			170				
A-C	646	161	0.00			646				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	0.00	376	0.024	9	0.0	0.0	9.805	A
B-A	135	34	0.00	293	0.461	133	0.5	0.8	22.874	C
C-AB	43	11	0.00	472	0.091	43	0.1	0.1	8.388	A
C-A	487	122	0.00			487				
A-B	203	51	0.00			203				
A-C	771	193	0.00			771				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	0.00	190	0.058	11	0.0	0.1	20.028	C
B-A	165	41	0.00	217	0.762	158	0.8	2.6	57.116	F
C-AB	53	13	0.00	417	0.127	53	0.1	0.1	9.869	A
C-A	597	149	0.00			597				
A-B	249	62	0.00			249				
A-C	945	236	0.00			945				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	0.00	168	0.065	11	0.1	0.1	22.904	C
B-A	165	41	0.00	217	0.762	164	2.6	2.8	66.823	F
C-AB	53	13	0.00	417	0.127	53	0.1	0.1	9.876	A
C-A	597	149	0.00			597				
A-B	249	62	0.00			249				
A-C	945	236	0.00			945				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	0.00	363	0.025	9	0.1	0.0	10.167	B
B-A	135	34	0.00	292	0.461	143	2.8	0.9	25.623	D
C-AB	43	11	0.00	472	0.091	43	0.1	0.1	8.399	A
C-A	487	122	0.00			487				
A-B	203	51	0.00			203				
A-C	771	193	0.00			771				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Pedestrian demand (Ped/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	0.00	443	0.017	8	0.0	0.0	8.263	A
B-A	113	28	0.00	347	0.325	115	0.9	0.5	15.892	C
C-AB	36	9	0.00	512	0.071	36	0.1	0.1	7.573	A
C-A	408	102	0.00			408				
A-B	170	43	0.00			170				
A-C	646	161	0.00			646				