KEEPING BRITAIN TRADING

IMMINGHAM EASTERN RO-RO TERMINAL

Applicant's Issue Specific Hearing 3 Action Points for Deadline 5 – Appendix 2 - DTA Report 23325-27 Annex E

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APFP Regulations 2009 – Regulation 5(2)(q)

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Annex E

Internal Junctions Assessment

1.1 This Technical Note has been produced by DTA to summarise the results of the Internal Junction Capacity Assessments carried out for the Transport Assessment.

1.2 The details of the internal junction improvements can be found in Schedule 1 of the DCO application and are shown in Appendix A of the TA.

1.3 Turning counts were undertaken on Wednesday 20th April 2022 at the following internal junctions:

- Robinson Road/ Crescent Access Road Junction
- East Riverside/ East Dock Road
- Robinson Road/ East Dock Road
- Robinson Road/ Gresley Way
- Robinson Road/ East Riverside
- Robinson Road/ IOT Access Road

1.4 A plan of the internal road names can be seen attached at **Appendix TN4 A**.

1.5 The development traffic is derived as is described in Section 5 of the Transport Assessment. The same assumptions about the distribution have also been used in this assessment (85% of traffic using East Gate and 15% using West Gate).

1.6 Assumptions have been made about traffic which will be diverted following the closure of the section of East Riverside to the East of the East Riverside/ East Dock Road junction. These are as follows:

- All East Riverside East to East Dock Road movements will be diverted to the Robinson Road/ East Riverside junction;
- All East Riverside East to East Riverside West movements will be diverted through all the junctions listed above to make the East Dock Road to East Riverside West movement;
- All East Dock Road to East Riverside East movements will be diverted to make the

East Dock Road to Robinson Road S movement and then move straight through the other junctions to exit the Port; and

- All East Riverside West to East Riverside East movements will be diverted down East Dock Road and then move straight through the other junctions to exit the Port.

1.7 The assessments have taken into account growth (TN 1) and operation of the individual junctions has been tested using the industry standard modelling tool of TRL Junctions. The junctions have been assessed for the opening year of 2025 and future year of 2032. The junctions have been assessed as they are at present as the change in geometry at relevant junctions will increase the capacity of the junction.

1.8 The junction model considers the performance of priority junctions and roundabouts in isolation from other junctions within the network. The arrival pattern is normally profiled using the ODTAB to replicate unconstrained demand although in practice where the individual junctions are within an urban network external constraints may make this unrealistic.

1.9 There are three key performance metrics which are outputs from the modelling. These are the forecast queue length (in vehicles), the average delay (in seconds) and the ratio of flow to capacity (RFC). Convention is that the modelled period is sub-divided into 15-minute time segments and the highest (worst) results during the modelled period are reported.

1.10 A junction is considered to be operating at capacity when the Ratio of Flow to Capacity (RFC) is 1. However, generally once the RFC is above 0.85 the junction operational results become less stable due to an exponential relationship within the modelling formula inherent in the modelling software. Therefore, if an RFC above 0.85 is forecast closer scrutiny and consideration is required.

Robinson Road/ Crescent Access Road Priority Junction

1.11 The Robinson Road/ Crescent Access Road Priority Junction has been assessed using the PICADY module of Junctions 10. A summary of the results can be seen in **Table 1** below with the full output attached in **Appendix TN4 B**.

Table 1 - Robinson Road/ Crescent Access Road Junction Assessment Summary

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
2022 Base						
Stream B-AC	0.1	9.68	0.03	0.2	8.81	0.07
Stream C-AB	0.2	10.50	0.06	0.3	7.28	0.10
2025 Base						
Stream B-AC	0.1	9.75	0.03	0.2	8.85	0.08
Stream C-AB	0.2	10.49	0.06	0.3	7.23	0.11
2025 Base + Development						
Stream B-AC	0.9	17.62	0.32	1.8	21.19	0.49
Stream C-AB	0.4	12.50	0.15	0.9	8.25	0.25
2032 Base						
Stream B-AC	0.1	9.84	0.04	0.2	8.90	0.08
Stream C-AB	0.2	10.53	0.06	0.4	7.15	0.11
2032 Base + Development						
Stream B-AC	0.9	18.04	0.33	1.8	21.62	0.49
Stream C-AB	0.5	12.57	0.16	0.9	8.21	0.26
NB: A – Robinson Road E; B – Crescent Access Road; C – Robinson Road N						

1.12 As can be seen above, the maximum RFC of 0.49 is reached during the 2032 Base + Development in the PM peak period for traffic movements from Crescent Access Road to Robinson Road. This indicates that the development traffic will not have a severe impact on the Robinson Road/ Crescent Access Road Priority Junction.

East Riverside/ East Dock Road

1.13 The East Riverside/ East Dock Road Priority Junction has been assessed using the PICADY module of Junctions 10. A summary of the results can be seen in **Table 2** below with the full output attached in **Appendix TN4 C**.

Table 2 - Robinson Road/ Crescent Access Road Junction Assessment Summary

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
2022 Base						
Stream B-C	0.0	10.48	0.01	0.0	9.22	0.01
Stream B-A	0.0	0.00	0.00	0.0	10.21	0.01
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00
2025 Base						
Stream B-C	0.0	10.48	0.01	0.0	9.22	0.01
Stream B-A	0.0	0.00	0.00	0.0	10.21	0.01
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00
2025 Base + Development						
Stream B-C	0.1	10.08	0.03	0.1	9.99	0.03
Stream B-A	0.0	0.00	0.00	0.0	0.00	0.00
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00
2032 Base						
Stream B-C	0.0	10.49	0.01	0.0	9.24	0.01
Stream B-A	0.0	0.00	0.00	0.0	10.22	0.01
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00
2032 Base + Development						
Stream B-C	0.1	10.10	0.03	0.1	9.99	0.03
Stream B-A	0.0	0.00	0.00	0.0	0.00	0.00
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00
NB: A – East Riverside E; B – East Dock Road; C – East Riverside N						

1.14 As can be seen above, the maximum RFC of 0.03 is reached during the 2032 Base + Development in the AM peak period for traffic movements from East Dock Road to East Riverside N. This indicates that the development traffic will not have a severe impact on the East Riverside/ East Dock Road Priority Junction.

Robinson Road/ East Dock Road Priority Junction

1.15 The Robinson Road/ East Dock Road Priority Junction has been assessed using the PICADY module of Junctions 10. A summary of the results can be seen in **Table 3** below with the full output attached in **Appendix TN4 D**.

Table 3 - Robinson Road/ East Dock Road Junction Assessment Summary

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
2022 Base						
Stream B-C	0.1	9.39	0.05	0.1	10.00	0.07
Stream B-A	0.1	11.26	0.04	0.1	14.49	0.04
Stream C-AB	0.1	6.17	0.03	0.1	10.56	0.04
2025 Base						
Stream B-C	0.1	9.44	0.05	0.1	10.06	0.07
Stream B-A	0.1	11.35	0.04	0.1	14.62	0.04
Stream C-AB	0.1	6.14	0.03	0.1	10.54	0.04
2025 Base + Development						
Stream B-C	0.1	9.08	0.06	0.2	10.36	0.09
Stream B-A	0.1	11.90	0.04	0.1	15.53	0.05
Stream C-AB	0.2	6.70	0.07	0.2	10.54	0.07
2032 Base						
Stream B-C	0.1	9.49	0.05	0.2	10.20	0.08
Stream B-A	0.1	11.48	0.04	0.1	14.87	0.05
Stream C-AB	0.1	6.07	0.03	0.1	10.54	0.05
2032 Base + Development						
Stream B-C	0.1	9.14	0.06	0.2	10.86	0.10
Stream B-A	0.1	12.07	0.04	0.1	15.81	0.05
Stream C-AB	0.2	6.64	0.08	0.2	10.16	0.07
NB: A – Robinson Road N; B – East Dock Road; C – Robinson Road S						

1.16 As can be seen above, the maximum RFC of 0.10 is reached during the 2032 Base + Development in the PM peak period for traffic movements from East Dock Road to Robinson Road S. This indicates that the development traffic will not have a severe impact on the Robinson Road/ East Dock Road Priority Junction.

Robinson Road/ East Riverside Priority Junction

1.17 The Robinson Road/ East Riverside Priority Junction has been assessed using the PICADY module of Junctions 10. A summary of the results can be seen in **Table 4** below with the full output attached in **Appendix TN4 E**.

Table 4 - Robinson Road/ East Riverside Junction Assessment Summary

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
2022 Base						
Stream B-C	0.0	5.59	0.02	0.1	5.64	0.05
Stream B-A	0.1	10.09	0.05	0.1	12.74	0.03
Stream C-AB	0.2	5.29	0.07	0.0	10.40	0.01
2025 Base						
Stream B-C	0.0	5.62	0.02	0.1	5.68	0.05
Stream B-A	0.1	10.17	0.05	0.1	12.86	0.03
Stream C-AB	0.2	5.35	0.08	0.0	10.41	0.01
2025 Base + Development						
Stream B-C	0.0	6.22	0.02	0.0	5.79	0.04
Stream B-A	0.1	12.02	0.06	0.1	15.99	0.03
Stream C-AB	0.3	5.12	0.10	0.0	8.76	0.02
2032 Base						
Stream B-C	0.0	9.54	0.02	0.1	5.73	0.05
Stream B-A	0.1	6.87	0.06	0.1	13.03	0.03
Stream C-AB	0.3	8.18	0.08	0.0	10.42	0.01
2032 Base + Development						
Stream B-C	0.0	6.25	0.02	0.0	5.85	0.05
Stream B-A	0.1	12.19	0.07	0.1	16.26	0.03
Stream C-AB	0.3	5.08	0.10	0.0	8.76	0.02
NB: A – Robinson Road W; B – East Riverside; C – Robinson Road E						

1.18 As can be seen above, the maximum RFC of 0.10 is reached during the 2032 Base + Development in the AM peak period for traffic movements from Robinson Road E to Robinson Road W and East Riverside. This indicates that the development traffic will not have a severe impact on the Robinson Road/ East Riverside Priority Junction.

Robinson Road/ Gresley Way Priority Junction

1.19 The Robinson Road/ Gresley Way Priority Junction has been assessed using the PICADY module of Junctions 10. A summary of the results can be seen in **Table 5** below with the full output attached in **Appendix TN4 F**.

Table 5 - Robinson Road/ Gresley Way Junction Assessment Summary

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
2022 Base						
Stream B-C	0.0	9.97	0.02	0.1	10.70	0.04
Stream B-A	0.1	13.18	0.04	0.1	10.35	0.06
Stream C-AB	0.0	6.36	0.01	0.0	6.75	0.02
2025 Base						
Stream B-C	0.0	10.08	0.02	0.1	10.73	0.04
Stream B-A	0.1	13.27	0.05	0.1	10.47	0.07
Stream C-AB	0.0	6.37	0.01	0.0	6.69	0.02
2025 Base + Development						
Stream B-C	0.0	10.29	0.02	0.3	9.93	0.17
Stream B-A	0.1	13.87	0.05	0.1	13.24	0.08
Stream C-AB	0.0	6.34	0.01	0.0	6.52	0.02
2032 Base						
Stream B-C	0.0	10.14	0.02	0.1	9.01	0.04
Stream B-A	0.1	13.55	0.05	0.1	13.65	0.07
Stream C-AB	0.0	6.40	0.01	0.0	5.45	0.02
2032 Base + Development						
Stream B-C	0.0	10.36	0.02	0.4	10.09	0.18
Stream B-A	0.1	14.18	0.05	0.1	13.47	0.09
Stream C-AB	0.0	6.36	0.01	0.0	6.44	0.02
NB: A – Robinson Road S; B – Gresley Way; C – Robinson Road N						

1.20 As can be seen above, the maximum RFC of 0.18 is reached during the 2032 Base + Development in the PM peak period for traffic movements from Gresley Way to Robinson Road N. This indicates that the development traffic will not have a severe impact on the Robinson Road/ Gresley Way Priority Junction.

Robinson Road/ IOT Access Road Priority Junction

1.21 The Robinson Road/ IOT Access Road Priority Junction has been assessed using the PICADY module of Junctions 10. A summary of the results can be seen in **Table 6** below with the full output attached in **Appendix TN4 G**.

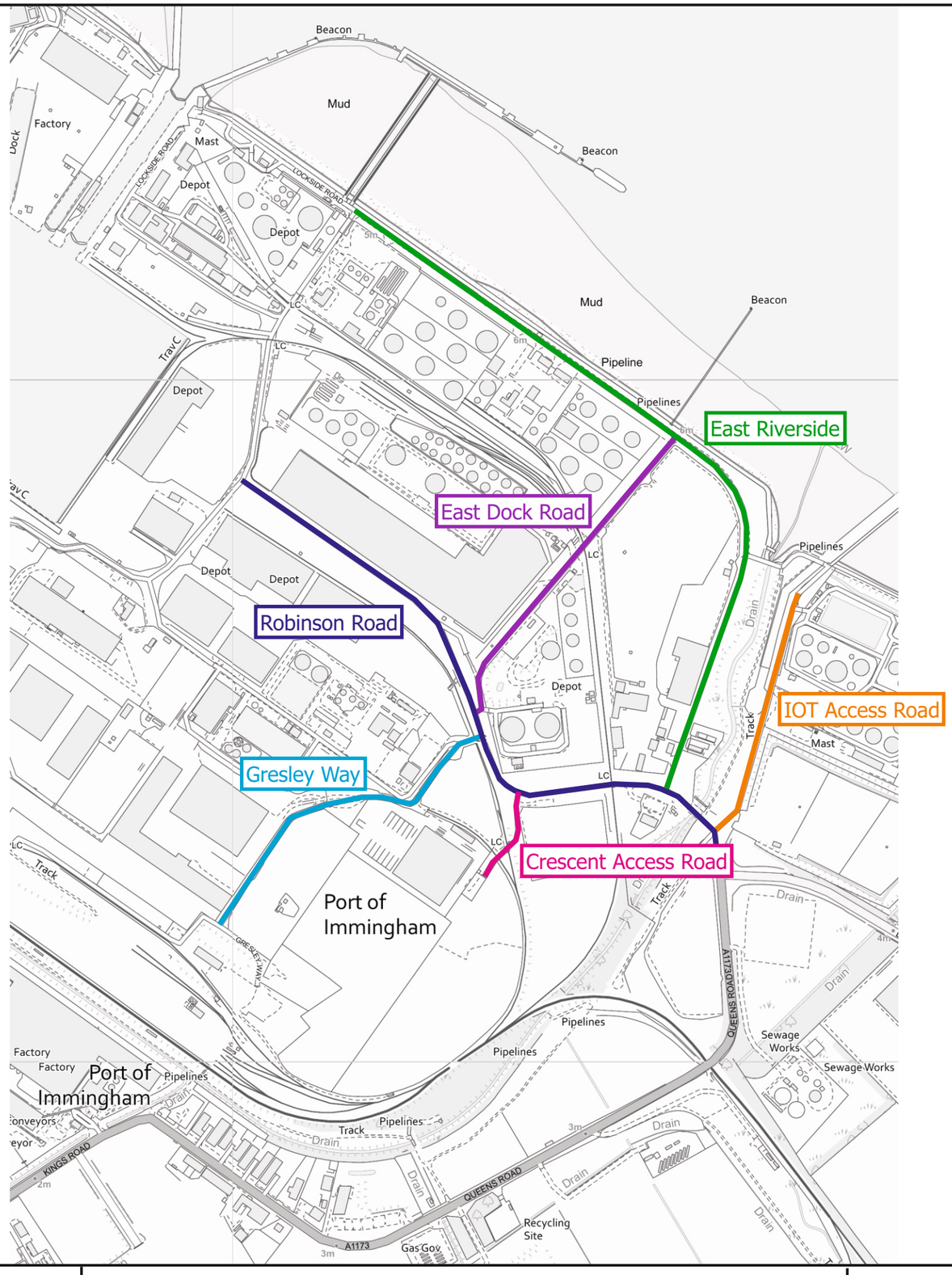
Table 6 - Robinson Road/ IOT Access Road Junction Assessment Summary

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
2022 Base						
Stream B-C	0.0	6.68	0.01	0.1	5.38	0.08
Stream B-A	0.0	15.14	0.00	0.0	7.80	0.00
Stream C-AB	0.3	5.35	0.14	0.0	6.87	0.03
2025 Base						
Stream B-C	0.0	6.69	0.01	0.1	5.41	0.08
Stream B-A	0.0	15.23	0.00	0.0	7.86	0.00
Stream C-AB	0.4	5.34	0.15	0.0	6.90	0.03
2025 Base + Development						
Stream B-C	0.0	7.03	0.01	0.1	5.86	0.09
Stream B-A	0.0	17.59	0.01	0.0	9.53	0.01
Stream C-AB	0.6	5.25	0.19	0.1	6.50	0.04
2032 Base						
Stream B-C	0.0	6.69	0.01	0.1	5.48	0.09
Stream B-A	0.0	15.47	0.00	0.0	7.94	0.00
Stream C-AB	0.4	5.32	0.16	0.0	6.93	0.03
2032 Base + Development						
Stream B-C	0.0	7.03	0.02	0.1	5.94	0.09
Stream B-A	0.0	17.89	0.01	0.0	9.65	0.01
Stream C-AB	0.7	5.23	0.21	0.1	6.52	0.04
NB: A – Robinson Road N; B – IOT Access Road; C – Robinson Road S						

1.22 As can be seen above, the maximum RFC of 0.21 is reached during the 2032 Base + Development in the AM peak period for traffic movements from the Robinson Road S to Robinson N and IOT Access Road. This indicates that the development traffic will not have a severe impact on the Robinson Road/ IOT Access Road Priority Junction.

Appendix TN4 A

Internal Road Names Plan



DTA
Transport Planning Consultants
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Notes:

Figure 9
Drawing Title: Internal Road Names Plan
Job Title: Project Sugar, Port of Immingham
Client: ABP

Scale : NTS

NORTH

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Appendix TN4 B

Robinson Road/ Crescent Access Road Priority Junction Assessment

Junctions 10

PICADY 10 - Priority Intersection Module

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Filename: Robinson Road-Crescent Access Road.j10
Path: P:\23000's\23325\Junction Assessment\2 Internal Junctions
Report generation date: 23/10/2023 14:29:00

Summary of junction performance

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-AC	0.1	9.68	0.03	0.2	8.81	0.07
Stream C-AB	0.2	10.50	0.06	0.3	7.28	0.10
	2025 Base					
Stream B-AC	0.1	9.75	0.03	0.2	8.85	0.08
Stream C-AB	0.2	10.49	0.06	0.3	7.23	0.11
	2025 + Development					
Stream B-AC	0.9	17.62	0.32	1.8	21.20	0.49
Stream C-AB	0.4	12.50	0.15	0.9	8.25	0.25
	2032 Base					
Stream B-AC	0.1	9.84	0.04	0.2	8.90	0.08
Stream C-AB	0.2	10.53	0.06	0.4	7.15	0.11
	2032 + Development					
Stream B-AC	0.9	18.04	0.33	1.8	21.65	0.49
Stream C-AB	0.5	12.57	0.16	0.9	8.21	0.26

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

File summary

File Description

Title	
Location	
Site number	
Date	18/05/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DTA\arcady
Description	

Units

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

Analysis Options

Vehicle length (m)	Calculate Q Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Analysis Set Details

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

2022 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.02	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.02	A

Arms

Arms

Arm	Name	Description	Arm type
A	Robinson Road E		Major
B	Crescent Access Road		Minor
C	Robinson Road N		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
Robinson Road N	8.95			230.4	✓	0.00

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)
Crescent Access Road	One lane	5.00	250	194

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	799	0.128	0.324	0.204	0.464
B-C	895	0.118	0.299	-	-
C-B	707	0.239	0.239	-	-

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	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road E		ONE HOUR	✓	386	100.000
Crescent Access Road		ONE HOUR	✓	23	100.000
Robinson Road N		ONE HOUR	✓	161	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	1	385
	Crescent Access Road	0	0	23
	Robinson Road N	133	28	0

Vehicle Mix

HV %s

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	0	21
	Crescent Access Road	0	0	100
	Robinson Road N	71	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	9.68	0.1	A	21	32
C-AB	0.06	10.50	0.2	B	31	47
C-A					116	175
A-B					0.92	1
A-C					353	530

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	809	0.021	17	0.0	0.0	9.093	A
C-AB	25	6	703	0.035	24	0.0	0.1	10.359	B
C-A	97	24			97				
A-B	0.75	0.19			0.75				
A-C	290	72			290				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	21	5	792	0.026	21	0.0	0.1	9.334	A
C-AB	30	8	703	0.043	30	0.1	0.1	10.430	B
C-A	114	29			114				
A-B	0.90	0.22			0.90				
A-C	346	87			346				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	25	6	769	0.033	25	0.1	0.1	9.685	A
C-AB	39	10	703	0.056	39	0.1	0.2	10.501	B
C-A	138	35			138				
A-B	1	0.28			1				
A-C	424	106			424				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	25	6	769	0.033	25	0.1	0.1	9.685	A
C-AB	39	10	703	0.056	39	0.2	0.2	10.475	B
C-A	138	35			138				
A-B	1	0.28			1				
A-C	424	106			424				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	21	5	792	0.026	21	0.1	0.1	9.337	A
C-AB	30	8	703	0.043	31	0.2	0.1	10.377	B
C-A	114	29			114				
A-B	0.90	0.22			0.90				
A-C	346	87			346				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	17	4	809	0.021	17	0.1	0.0	9.099	A
C-AB	25	6	703	0.035	25	0.1	0.1	10.342	B
C-A	97	24			97				
A-B	0.75	0.19			0.75				
A-C	290	72			290				

2022 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.83	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.83	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road E		ONE HOUR	✓	96	100.000
Crescent Access Road		ONE HOUR	✓	56	100.000
Robinson Road N		ONE HOUR	✓	441	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	0	96
	Crescent Access Road	7	0	49
	Robinson Road N	393	48	0

Vehicle Mix

HV %s

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	0	55
	Crescent Access Road	50	0	95
	Robinson Road N	24	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.07	8.81	0.2	A	51	77
C-AB	0.10	7.28	0.3	A	74	112
C-A					330	495
A-B					0	0
A-C					88	132

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	11	847	0.050	42	0.0	0.1	8.397	A
C-AB	55	14	873	0.063	54	0.0	0.2	7.281	A
C-A	277	69			277				
A-B	0	0			0				
A-C	72	18			72				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	50	13	840	0.060	50	0.1	0.1	8.565	A
C-AB	71	18	905	0.078	71	0.2	0.2	7.046	A
C-A	325	81			325				
A-B	0	0			0				
A-C	86	22			86				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	62	15	830	0.074	62	0.1	0.1	8.803	A
C-AB	97	24	951	0.102	97	0.2	0.3	6.686	A
C-A	388	97			388				
A-B	0	0			0				
A-C	106	26			106				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	62	15	830	0.074	62	0.1	0.2	8.805	A
C-AB	98	24	951	0.103	98	0.3	0.3	6.596	A
C-A	388	97			388				
A-B	0	0			0				
A-C	106	26			106				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	50	13	840	0.060	50	0.1	0.1	8.570	A
C-AB	71	18	906	0.079	72	0.3	0.2	6.828	A
C-A	325	81			325				
A-B	0	0			0				
A-C	86	22			86				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	42	11	847	0.050	42	0.1	0.1	8.408	A
C-AB	55	14	873	0.063	55	0.2	0.2	7.171	A
C-A	277	69			277				
A-B	0	0			0				
A-C	72	18			72				

2025 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.01	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.01	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road E		ONE HOUR	✓	398	100.000
Crescent Access Road		ONE HOUR	✓	24	100.000
Robinson Road N		ONE HOUR	✓	165	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	1	397
	Crescent Access Road	0	0	24
	Robinson Road N	137	28	0

Vehicle Mix

HV %s

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	0	21
	Crescent Access Road	0	0	100
	Robinson Road N	71	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.03	9.75	0.1	A	22	33
C-AB	0.06	10.49	0.2	B	32	47
C-A					120	180
A-B					0.92	1
A-C					364	546

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	5	806	0.022	18	0.0	0.0	9.133	A
C-AB	25	6	703	0.035	24	0.0	0.1	10.355	B
C-A	100	25			100				
A-B	0.75	0.19			0.75				
A-C	299	75			299				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	5	789	0.027	22	0.0	0.1	9.384	A
C-AB	31	8	703	0.044	30	0.1	0.1	10.426	B
C-A	118	29			118				
A-B	0.90	0.22			0.90				
A-C	357	89			357				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	7	765	0.035	26	0.1	0.1	9.751	A
C-AB	39	10	703	0.056	39	0.1	0.2	10.494	B
C-A	142	36			142				
A-B	1	0.28			1				
A-C	437	109			437				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	26	7	765	0.035	26	0.1	0.1	9.751	A
C-AB	39	10	703	0.056	39	0.2	0.2	10.469	B
C-A	142	36			142				
A-B	1	0.28			1				
A-C	437	109			437				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	5	789	0.027	22	0.1	0.1	9.388	A
C-AB	31	8	703	0.044	31	0.2	0.1	10.371	B
C-A	118	29			118				
A-B	0.90	0.22			0.90				
A-C	357	89			357				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	18	5	806	0.022	18	0.1	0.0	9.139	A
C-AB	25	6	703	0.035	25	0.1	0.1	10.339	B
C-A	99	25			99				
A-B	0.75	0.19			0.75				
A-C	299	75			299				

2025 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.85	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.85	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road E		ONE HOUR	✓	99	100.000
Crescent Access Road		ONE HOUR	✓	58	100.000
Robinson Road N		ONE HOUR	✓	455	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	0	99
	Crescent Access Road	7	0	51
	Robinson Road N	405	50	0

Vehicle Mix

HV %s

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	0	55
	Crescent Access Road	50	0	95
	Robinson Road N	24	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	8.85	0.2	A	53	80
C-AB	0.11	7.23	0.3	A	79	118
C-A					339	508
A-B					0	0
A-C					91	136

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	44	11	847	0.052	43	0.0	0.1	8.424	A
C-AB	58	14	878	0.066	57	0.0	0.2	7.232	A
C-A	285	71			285				
A-B	0	0			0				
A-C	75	19			75				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	52	13	840	0.062	52	0.1	0.1	8.600	A
C-AB	75	19	912	0.082	75	0.2	0.2	6.996	A
C-A	334	83			334				
A-B	0	0			0				
A-C	89	22			89				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	64	16	829	0.077	64	0.1	0.2	8.847	A
C-AB	103	26	959	0.108	103	0.2	0.3	6.642	A
C-A	397	99			397				
A-B	0	0			0				
A-C	109	27			109				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	64	16	829	0.077	64	0.2	0.2	8.849	A
C-AB	104	26	959	0.108	104	0.3	0.3	6.552	A
C-A	397	99			397				
A-B	0	0			0				
A-C	109	27			109				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	52	13	840	0.062	52	0.2	0.1	8.605	A
C-AB	75	19	912	0.083	76	0.3	0.2	6.776	A
C-A	334	83			334				
A-B	0	0			0				
A-C	89	22			89				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	44	11	847	0.052	44	0.1	0.1	8.435	A
C-AB	58	15	878	0.066	58	0.2	0.2	7.124	A
C-A	285	71			285				
A-B	0	0			0				
A-C	75	19			75				

2025 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.96	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.96	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road E		ONE HOUR	✓	641	100.000
Crescent Access Road		ONE HOUR	✓	168	100.000
Robinson Road N		ONE HOUR	✓	207	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	227	414
	Crescent Access Road	143	0	25
	Robinson Road N	139	68	0

Vehicle Mix

HV %s

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	93	23
	Crescent Access Road	90	0	90
	Robinson Road N	69	97	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.32	17.62	0.9	C	154	231
C-AB	0.15	12.50	0.4	B	78	118
C-A					112	167
A-B					208	312
A-C					380	570

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	32	649	0.195	125	0.0	0.5	12.992	B
C-AB	61	15	662	0.092	60	0.0	0.2	11.461	B
C-A	95	24			95				
A-B	171	43			171				
A-C	312	78			312				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	151	38	617	0.245	150	0.5	0.6	14.631	B
C-AB	76	19	655	0.116	75	0.2	0.3	11.889	B
C-A	110	28			110				
A-B	204	51			204				
A-C	372	93			372				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	185	46	573	0.323	184	0.6	0.9	17.522	C
C-AB	98	25	646	0.152	98	0.3	0.4	12.495	B
C-A	129	32			129				
A-B	250	62			250				
A-C	456	114			456				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	185	46	573	0.323	185	0.9	0.9	17.622	C
C-AB	99	25	646	0.152	99	0.4	0.4	12.468	B
C-A	129	32			129				
A-B	250	62			250				
A-C	456	114			456				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	151	38	617	0.245	152	0.9	0.6	14.745	B
C-AB	76	19	655	0.116	76	0.4	0.3	11.829	B
C-A	110	28			110				
A-B	204	51			204				
A-C	372	93			372				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	32	649	0.195	127	0.6	0.5	13.124	B
C-AB	61	15	662	0.092	61	0.3	0.2	11.467	B
C-A	95	24			95				
A-B	171	43			171				
A-C	312	78			312				

2025 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		6.21	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.21	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road E		ONE HOUR	✓	402	100.000
Crescent Access Road		ONE HOUR	✓	278	100.000
Robinson Road N		ONE HOUR	✓	514	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	293	109
	Crescent Access Road	194	0	84
	Robinson Road N	413	101	0

Vehicle Mix

HV %s

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	96	58
	Crescent Access Road	90	0	95
	Robinson Road N	25	98	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.49	21.20	1.8	C	255	383
C-AB	0.25	8.25	0.9	A	169	253
C-A					303	454
A-B					269	403
A-C					100	150

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	209	52	695	0.301	206	0.0	0.8	14.017	B
C-AB	121	30	836	0.145	119	0.0	0.4	8.163	A
C-A	266	66			266				
A-B	221	55			221				
A-C	82	21			82				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	250	62	668	0.374	249	0.8	1.1	16.387	C
C-AB	160	40	865	0.185	159	0.4	0.6	8.203	A
C-A	302	76			302				
A-B	263	66			263				
A-C	98	24			98				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	306	77	631	0.485	304	1.1	1.7	20.896	C
C-AB	225	56	905	0.249	224	0.6	0.9	8.246	A
C-A	341	85			341				
A-B	323	81			323				
A-C	120	30			120				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	306	77	631	0.485	306	1.7	1.8	21.204	C
C-AB	226	56	906	0.249	226	0.9	0.9	8.122	A
C-A	340	85			340				
A-B	323	81			323				
A-C	120	30			120				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	250	62	668	0.374	252	1.8	1.2	16.693	C
C-AB	161	40	865	0.186	162	0.9	0.6	7.922	A
C-A	302	75			302				
A-B	263	66			263				
A-C	98	24			98				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	209	52	694	0.302	211	1.2	0.8	14.295	B
C-AB	122	30	837	0.146	122	0.6	0.4	8.052	A
C-A	265	66			265				
A-B	221	55			221				
A-C	82	21			82				

2032 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.04	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.04	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road E		ONE HOUR	✓	416	100.000
Crescent Access Road		ONE HOUR	✓	25	100.000
Robinson Road N		ONE HOUR	✓	173	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	1	415
	Crescent Access Road	0	0	25
	Robinson Road N	143	30	0

Vehicle Mix

HV %s

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	0	21
	Crescent Access Road	0	0	100
	Robinson Road N	71	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.04	9.84	0.1	A	23	34
C-AB	0.06	10.53	0.2	B	34	51
C-A					125	187
A-B					0.92	1
A-C					381	571

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	802	0.023	19	0.0	0.0	9.189	A
C-AB	27	7	702	0.038	26	0.0	0.1	10.376	B
C-A	104	26			104				
A-B	0.75	0.19			0.75				
A-C	312	78			312				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	784	0.029	22	0.0	0.1	9.455	A
C-AB	33	8	702	0.047	33	0.1	0.1	10.455	B
C-A	122	31			122				
A-B	0.90	0.22			0.90				
A-C	373	93			373				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	759	0.036	27	0.1	0.1	9.845	A
C-AB	43	11	703	0.061	43	0.1	0.2	10.533	B
C-A	148	37			148				
A-B	1	0.28			1				
A-C	457	114			457				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	28	7	759	0.036	28	0.1	0.1	9.845	A
C-AB	43	11	703	0.061	43	0.2	0.2	10.505	B
C-A	148	37			148				
A-B	1	0.28			1				
A-C	457	114			457				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	22	6	784	0.029	23	0.1	0.1	9.459	A
C-AB	33	8	703	0.047	33	0.2	0.1	10.396	B
C-A	122	31			122				
A-B	0.90	0.22			0.90				
A-C	373	93			373				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	19	5	802	0.023	19	0.1	0.0	9.193	A
C-AB	27	7	702	0.038	27	0.1	0.1	10.357	B
C-A	103	26			103				
A-B	0.75	0.19			0.75				
A-C	312	78			312				

2032 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.86	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.86	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road E		ONE HOUR	✓	104	100.000
Crescent Access Road		ONE HOUR	✓	60	100.000
Robinson Road N		ONE HOUR	✓	475	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	0	104
	Crescent Access Road	7	0	53
	Robinson Road N	423	52	0

Vehicle Mix

HV %s

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	0	55
	Crescent Access Road	50	0	95
	Robinson Road N	24	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.08	8.90	0.2	A	55	83
C-AB	0.11	7.15	0.4	A	84	126
C-A					352	528
A-B					0	0
A-C					95	143

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	45	11	846	0.053	45	0.0	0.1	8.460	A
C-AB	61	15	885	0.069	60	0.0	0.2	7.151	A
C-A	296	74			296				
A-B	0	0			0				
A-C	78	20			78				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	54	13	838	0.064	54	0.1	0.1	8.643	A
C-AB	80	20	921	0.087	80	0.2	0.3	6.915	A
C-A	347	87			347				
A-B	0	0			0				
A-C	93	23			93				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	66	17	828	0.080	66	0.1	0.2	8.902	A
C-AB	111	28	970	0.114	110	0.3	0.4	6.566	A
C-A	412	103			412				
A-B	0	0			0				
A-C	115	29			115				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	66	17	828	0.080	66	0.2	0.2	8.904	A
C-AB	111	28	970	0.114	111	0.4	0.4	6.475	A
C-A	412	103			412				
A-B	0	0			0				
A-C	115	29			115				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	54	13	838	0.064	54	0.2	0.1	8.649	A
C-AB	80	20	921	0.087	81	0.4	0.3	6.694	A
C-A	347	87			347				
A-B	0	0			0				
A-C	93	23			93				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	45	11	846	0.053	45	0.1	0.1	8.471	A
C-AB	61	15	886	0.069	62	0.3	0.2	7.042	A
C-A	296	74			296				
A-B	0	0			0				
A-C	78	20			78				

2032 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.98	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road E		ONE HOUR	✓	660	100.000
Crescent Access Road		ONE HOUR	✓	168	100.000
Robinson Road N		ONE HOUR	✓	215	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	227	433
	Crescent Access Road	143	0	25
	Robinson Road N	145	70	0

Vehicle Mix

HV %s

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	93	23
	Crescent Access Road	90	0	90
	Robinson Road N	69	97	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.33	18.04	0.9	C	154	231
C-AB	0.16	12.57	0.5	B	82	122
C-A					116	174
A-B					208	312
A-C					397	596

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	32	643	0.197	125	0.0	0.5	13.143	B
C-AB	63	16	662	0.095	62	0.0	0.2	11.494	B
C-A	99	25			99				
A-B	171	43			171				
A-C	326	81			326				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	151	38	610	0.248	150	0.5	0.6	14.861	B
C-AB	79	20	655	0.120	78	0.2	0.3	11.939	B
C-A	115	29			115				
A-B	204	51			204				
A-C	389	97			389				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	185	46	564	0.328	184	0.6	0.9	17.928	C
C-AB	103	26	646	0.159	102	0.3	0.5	12.573	B
C-A	134	34			134				
A-B	250	62			250				
A-C	477	119			477				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	185	46	564	0.328	185	0.9	0.9	18.038	C
C-AB	103	26	646	0.159	103	0.5	0.5	12.545	B
C-A	134	33			134				
A-B	250	62			250				
A-C	477	119			477				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	151	38	610	0.248	152	0.9	0.6	14.984	B
C-AB	79	20	655	0.120	79	0.5	0.3	11.877	B
C-A	114	29			114				
A-B	204	51			204				
A-C	389	97			389				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	126	32	643	0.197	127	0.6	0.5	13.280	B
C-AB	63	16	662	0.096	64	0.3	0.3	11.499	B
C-A	99	25			99				
A-B	171	43			171				
A-C	326	81			326				

2032 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		6.27	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.27	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road E		ONE HOUR	✓	407	100.000
Crescent Access Road		ONE HOUR	✓	280	100.000
Robinson Road N		ONE HOUR	✓	536	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	293	114
	Crescent Access Road	194	0	86
	Robinson Road N	432	104	0

Vehicle Mix

HV %s

		To		
		Robinson Road E	Crescent Access Road	Robinson Road N
From	Robinson Road E	0	96	58
	Crescent Access Road	89	0	95
	Robinson Road N	25	98	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.49	21.65	1.8	C	257	385
C-AB	0.26	8.21	0.9	A	179	268
C-A					313	469
A-B					269	403
A-C					105	157

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	211	53	691	0.305	208	0.0	0.8	14.108	B
C-AB	127	32	845	0.151	126	0.0	0.4	8.098	A
C-A	276	69			276				
A-B	221	55			221				
A-C	86	21			86				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	252	63	664	0.379	250	0.8	1.1	16.573	C
C-AB	169	42	875	0.193	168	0.4	0.6	8.136	A
C-A	313	78			313				
A-B	263	66			263				
A-C	102	26			102				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	308	77	625	0.493	306	1.1	1.8	21.319	C
C-AB	239	60	918	0.261	238	0.6	0.9	8.209	A
C-A	351	88			351				
A-B	323	81			323				
A-C	126	31			126				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	308	77	625	0.493	308	1.8	1.8	21.654	C
C-AB	240	60	919	0.261	240	0.9	0.9	8.084	A
C-A	350	88			350				
A-B	323	81			323				
A-C	126	31			126				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	252	63	663	0.380	254	1.8	1.2	16.898	C
C-AB	170	42	876	0.194	171	0.9	0.6	7.852	A
C-A	312	78			312				
A-B	263	66			263				
A-C	102	26			102				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-AC	211	53	691	0.305	212	1.2	0.9	14.401	B
C-AB	128	32	846	0.152	129	0.6	0.4	7.973	A
C-A	275	69			275				
A-B	221	55			221				
A-C	86	21			86				

Appendix TN4 C

East Riverside/ East Dock Road Priority Junction Assessment

Junctions 10

PICADY 10 - Priority Intersection Module

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Filename: East Riverside-East Dock Road.j10
Path: P:\23000's\23325\Junction Assessment\2 Internal Junctions
Report generation date: 23/10/2023 14:26:45

Summary of junction performance

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-C	0.0	10.48	0.01	0.0	9.22	0.01
Stream B-A	0.0	0.00	0.00	0.0	10.21	0.01
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00
	2025 Base					
Stream B-C	0.0	10.48	0.01	0.0	9.22	0.01
Stream B-A	0.0	0.00	0.00	0.0	10.21	0.01
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00
	2025 + Development					
Stream B-C	0.1	10.08	0.03	0.1	9.99	0.03
Stream B-A	0.0	0.00	0.00	0.0	0.00	0.00
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00
	2032 Base					
Stream B-C	0.0	10.49	0.01	0.0	9.24	0.01
Stream B-A	0.0	0.00	0.00	0.0	10.22	0.01
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00
	2032 + Development					
Stream B-C	0.1	10.10	0.03	0.1	9.99	0.03
Stream B-A	0.0	0.00	0.00	0.0	0.00	0.00
Stream C-AB	0.0	0.00	0.00	0.0	0.00	0.00

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 Av. delay per arriving vehicle.

File summary

File Description

Title	
Location	
Site number	
Date	18/05/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DTA\arcady
Description	

Units

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

Analysis Options

Vehicle length (m)	Calculate Q Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Analysis Set Details

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

2022 Base, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	East Dock Road - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Major arm width	East Riverside W - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		2.38	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.38	A

Arms

Arms

Arm	Name	Description	Arm type
A	East Riverside E		Major
B	East Dock Road		Minor
C	East Riverside W		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
East Riverside W	5.87			130.7	✓	0.00

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)
East Dock Road	One lane plus flare	10.00	3.91	2.83	2.69	2.68	✓	1.00	250	71

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	716	0.131	0.332	0.209	0.474
B-C	697	0.107	0.271	-	-
C-B	650	0.253	0.253	-	-

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	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
East Riverside E		ONE HOUR	✓	17	100.000
East Dock Road		ONE HOUR	✓	5	100.000
East Riverside W		ONE HOUR	✓	3	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	2	15
	East Dock Road	0	0	5
	East Riverside W	2	1	0

Vehicle Mix

HV %s

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	100	86
	East Dock Road	0	0	100
	East Riverside W	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	10.48	0.0	B	5	7
B-A	0.00	0.00	0.0	A	0	0
C-AB	0.00	0.00	0.0	A	0	0
C-A					0	0
A-B					2	3
A-C					14	21

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	694	0.005	4	0.0	0.0	10.435	B
B-A	0	0	712	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.38			2				
A-C	11	3			11				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	693	0.006	4	0.0	0.0	10.455	B
B-A	0	0	711	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.45			2				
A-C	13	3			13				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	692	0.008	5	0.0	0.0	10.484	B
B-A	0	0	710	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	645	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.55			2				
A-C	17	4			17				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	692	0.008	6	0.0	0.0	10.484	B
B-A	0	0	710	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	645	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.55			2				
A-C	17	4			17				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	693	0.006	5	0.0	0.0	10.458	B
B-A	0	0	711	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.45			2				
A-C	13	3			13				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	694	0.005	4	0.0	0.0	10.437	B
B-A	0	0	712	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.38			2				
A-C	11	3			11				

2022 Base, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	East Dock Road - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Major arm width	East Riverside W - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		6.05	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.05	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
East Riverside E		ONE HOUR	✓	9	100.000
East Dock Road		ONE HOUR	✓	15	100.000
East Riverside W		ONE HOUR	✓	3	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	9
	East Dock Road	7	0	8
	East Riverside W	1	2	0

Vehicle Mix

HV %s

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	100
	East Dock Road	100	0	75
	East Riverside W	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	9.22	0.0	A	7	11
B-A	0.01	10.21	0.0	B	6	10
C-AB	0.00	0.00	0.0	A	0	0
C-A					0	0
A-B					0	0
A-C					8	12

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	694	0.009	6	0.0	0.0	9.159	A
B-A	5	1	714	0.007	5	0.0	0.0	10.164	B
C-AB	0	0	648	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	7	2			7				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	693	0.010	7	0.0	0.0	9.183	A
B-A	6	2	713	0.009	6	0.0	0.0	10.185	B
C-AB	0	0	648	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	8	2			8				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	692	0.013	9	0.0	0.0	9.216	A
B-A	8	2	713	0.011	8	0.0	0.0	10.214	B
C-AB	0	0	647	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	10	2			10				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	692	0.013	9	0.0	0.0	9.216	A
B-A	8	2	713	0.011	8	0.0	0.0	10.214	B
C-AB	0	0	647	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	10	2			10				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	693	0.010	7	0.0	0.0	9.184	A
B-A	6	2	713	0.009	6	0.0	0.0	10.188	B
C-AB	0	0	648	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	8	2			8				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	694	0.009	6	0.0	0.0	9.160	A
B-A	5	1	714	0.007	5	0.0	0.0	10.167	B
C-AB	0	0	648	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	7	2			7				

2025 Base, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	East Dock Road - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Major arm width	East Riverside W - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		2.38	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.38	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
East Riverside E		ONE HOUR	✓	17	100.000
East Dock Road		ONE HOUR	✓	5	100.000
East Riverside W		ONE HOUR	✓	3	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	2	15
	East Dock Road	0	0	5
	East Riverside W	2	1	0

Vehicle Mix

HV %s

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	100	86
	East Dock Road	0	0	100
	East Riverside W	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	10.48	0.0	B	5	7
B-A	0.00	0.00	0.0	A	0	0
C-AB	0.00	0.00	0.0	A	0	0
C-A					0	0
A-B					2	3
A-C					14	21

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	694	0.005	4	0.0	0.0	10.435	B
B-A	0	0	712	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.38			2				
A-C	11	3			11				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	693	0.006	4	0.0	0.0	10.455	B
B-A	0	0	711	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.45			2				
A-C	13	3			13				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	692	0.008	5	0.0	0.0	10.484	B
B-A	0	0	710	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	645	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.55			2				
A-C	17	4			17				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	692	0.008	6	0.0	0.0	10.484	B
B-A	0	0	710	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	645	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.55			2				
A-C	17	4			17				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	693	0.006	5	0.0	0.0	10.458	B
B-A	0	0	711	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.45			2				
A-C	13	3			13				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	694	0.005	4	0.0	0.0	10.437	B
B-A	0	0	712	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.38			2				
A-C	11	3			11				

2025 Base, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	East Dock Road - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Major arm width	East Riverside W - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		6.05	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	6.05	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
East Riverside E		ONE HOUR	✓	9	100.000
East Dock Road		ONE HOUR	✓	15	100.000
East Riverside W		ONE HOUR	✓	3	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	9
	East Dock Road	7	0	8
	East Riverside W	1	2	0

Vehicle Mix

HV %s

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	100
	East Dock Road	100	0	75
	East Riverside W	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	9.22	0.0	A	7	11
B-A	0.01	10.21	0.0	B	6	10
C-AB	0.00	0.00	0.0	A	0	0
C-A					0	0
A-B					0	0
A-C					8	12

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	694	0.009	6	0.0	0.0	9.159	A
B-A	5	1	714	0.007	5	0.0	0.0	10.164	B
C-AB	0	0	648	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	7	2			7				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	693	0.010	7	0.0	0.0	9.183	A
B-A	6	2	713	0.009	6	0.0	0.0	10.185	B
C-AB	0	0	648	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	8	2			8				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	692	0.013	9	0.0	0.0	9.216	A
B-A	8	2	713	0.011	8	0.0	0.0	10.214	B
C-AB	0	0	647	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	10	2			10				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	692	0.013	9	0.0	0.0	9.216	A
B-A	8	2	713	0.011	8	0.0	0.0	10.214	B
C-AB	0	0	647	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	10	2			10				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	693	0.010	7	0.0	0.0	9.184	A
B-A	6	2	713	0.009	6	0.0	0.0	10.188	B
C-AB	0	0	648	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	8	2			8				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	2	694	0.009	6	0.0	0.0	9.160	A
B-A	5	1	714	0.007	5	0.0	0.0	10.167	B
C-AB	0	0	648	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	7	2			7				

2025 + Development, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	East Dock Road - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Major arm width	East Riverside W - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		10.08	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	10.08	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
East Riverside E		ONE HOUR	✓	0	100.000
East Dock Road		ONE HOUR	✓	20	100.000
East Riverside W		ONE HOUR	✓	3	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	0
	East Dock Road	0	0	20
	East Riverside W	0	3	0

Vehicle Mix

HV %s

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	0
	East Dock Road	0	0	89
	East Riverside W	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	10.08	0.1	B	18	28
B-A	0.00	0.00	0.0	A	0	0
C-AB	0.00	0.00	0.0	A	0	0
C-A					0	0
A-B					0	0
A-C					0	0

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	697	0.022	15	0.0	0.0	9.974	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	4	697	0.026	18	0.0	0.0	10.021	B
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	697	0.032	22	0.0	0.1	10.081	B
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	697	0.032	22	0.1	0.1	10.081	B
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	4	697	0.026	18	0.1	0.1	10.022	B
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	697	0.022	15	0.1	0.0	9.981	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

2025 + Development, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	East Dock Road - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Major arm width	East Riverside W - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		9.99	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.99	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
East Riverside E		ONE HOUR	✓	0	100.000
East Dock Road		ONE HOUR	✓	18	100.000
East Riverside W		ONE HOUR	✓	3	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	0
	East Dock Road	0	0	18
	East Riverside W	0	3	0

Vehicle Mix

HV %s

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	0
	East Dock Road	0	0	88
	East Riverside W	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	9.99	0.1	A	17	25
B-A	0.00	0.00	0.0	A	0	0
C-AB	0.00	0.00	0.0	A	0	0
C-A					0	0
A-B					0	0
A-C					0	0

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	14	3	697	0.019	13	0.0	0.0	9.899	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	697	0.023	16	0.0	0.0	9.941	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	697	0.028	20	0.0	0.1	9.995	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	697	0.028	20	0.1	0.1	9.995	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	697	0.023	16	0.1	0.0	9.944	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	14	3	697	0.019	14	0.0	0.0	9.904	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

2032 Base, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	East Dock Road - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Major arm width	East Riverside W - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		2.28	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	2.28	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
East Riverside E		ONE HOUR	✓	18	100.000
East Dock Road		ONE HOUR	✓	5	100.000
East Riverside W		ONE HOUR	✓	3	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	2	16
	East Dock Road	0	0	5
	East Riverside W	2	1	0

Vehicle Mix

HV %s

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	100	86
	East Dock Road	0	0	100
	East Riverside W	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	10.49	0.0	B	5	7
B-A	0.00	0.00	0.0	A	0	0
C-AB	0.00	0.00	0.0	A	0	0
C-A					0	0
A-B					2	3
A-C					15	22

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	693	0.005	4	0.0	0.0	10.438	B
B-A	0	0	712	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.38			2				
A-C	12	3			12				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	693	0.006	4	0.0	0.0	10.459	B
B-A	0	0	711	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.45			2				
A-C	14	4			14				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	692	0.008	5	0.0	0.0	10.489	B
B-A	0	0	710	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	645	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.55			2				
A-C	18	4			18				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	6	1	692	0.008	6	0.0	0.0	10.489	B
B-A	0	0	710	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	645	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.55			2				
A-C	18	4			18				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	1	693	0.006	5	0.0	0.0	10.462	B
B-A	0	0	711	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.45			2				
A-C	14	4			14				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	0.94	693	0.005	4	0.0	0.0	10.440	B
B-A	0	0	712	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	646	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	2	0.38			2				
A-C	12	3			12				

2032 Base, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	East Dock Road - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Major arm width	East Riverside W - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.95	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.95	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
East Riverside E		ONE HOUR	✓	10	100.000
East Dock Road		ONE HOUR	✓	16	100.000
East Riverside W		ONE HOUR	✓	3	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	10
	East Dock Road	7	0	9
	East Riverside W	1	2	0

Vehicle Mix

HV %s

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	100
	East Dock Road	100	0	75
	East Riverside W	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	9.24	0.0	A	8	12
B-A	0.01	10.22	0.0	B	6	10
C-AB	0.00	0.00	0.0	A	0	0
C-A					0	0
A-B					0	0
A-C					9	14

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	694	0.010	7	0.0	0.0	9.170	A
B-A	5	1	713	0.007	5	0.0	0.0	10.168	B
C-AB	0	0	648	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	8	2			8				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	693	0.012	8	0.0	0.0	9.198	A
B-A	6	2	713	0.009	6	0.0	0.0	10.190	B
C-AB	0	0	647	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	9	2			9				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	692	0.014	10	0.0	0.0	9.235	A
B-A	8	2	712	0.011	8	0.0	0.0	10.220	B
C-AB	0	0	647	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	11	3			11				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	692	0.014	10	0.0	0.0	9.235	A
B-A	8	2	712	0.011	8	0.0	0.0	10.220	B
C-AB	0	0	647	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	11	3			11				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	693	0.012	8	0.0	0.0	9.201	A
B-A	6	2	713	0.009	6	0.0	0.0	10.190	B
C-AB	0	0	647	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	9	2			9				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	7	2	694	0.010	7	0.0	0.0	9.173	A
B-A	5	1	713	0.007	5	0.0	0.0	10.170	B
C-AB	0	0	648	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	8	2			8				

2032 + Development, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	East Dock Road - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Major arm width	East Riverside W - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		10.10	B

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	10.10	B

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
East Riverside E		ONE HOUR	✓	0	100.000
East Dock Road		ONE HOUR	✓	21	100.000
East Riverside W		ONE HOUR	✓	3	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	0
	East Dock Road	0	0	21
	East Riverside W	0	3	0

Vehicle Mix

HV %s

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	0
	East Dock Road	0	0	89
	East Riverside W	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	10.10	0.1	B	19	29
B-A	0.00	0.00	0.0	A	0	0
C-AB	0.00	0.00	0.0	A	0	0
C-A					0	0
A-B					0	0
A-C					0	0

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	697	0.023	16	0.0	0.0	9.985	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	19	5	697	0.027	19	0.0	0.1	10.034	B
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	23	6	697	0.033	23	0.1	0.1	10.097	B
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	23	6	697	0.033	23	0.1	0.1	10.097	B
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	19	5	697	0.027	19	0.1	0.1	10.037	B
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	697	0.023	16	0.1	0.0	9.990	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

2032 + Development, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Minor arm flare	East Dock Road - Minor arm geometry	Is flare very short? Estimated flare length is zero but has been increased to 1 because a zero flare length is not allowed.
Warning	Major arm width	East Riverside W - Major arm geometry	For two-way major roads, please interpret results with caution if the total major carriageway width is less than 6m.

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		9.99	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.99	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
East Riverside E		ONE HOUR	✓	0	100.000
East Dock Road		ONE HOUR	✓	18	100.000
East Riverside W		ONE HOUR	✓	3	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	0
	East Dock Road	0	0	18
	East Riverside W	0	3	0

Vehicle Mix

HV %s

		To		
		East Riverside E	East Dock Road	East Riverside W
From	East Riverside E	0	0	0
	East Dock Road	0	0	88
	East Riverside W	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.03	9.99	0.1	A	17	25
B-A	0.00	0.00	0.0	A	0	0
C-AB	0.00	0.00	0.0	A	0	0
C-A					0	0
A-B					0	0
A-C					0	0

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	14	3	697	0.019	13	0.0	0.0	9.899	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	697	0.023	16	0.0	0.0	9.941	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	697	0.028	20	0.0	0.1	9.995	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	697	0.028	20	0.1	0.1	9.995	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	697	0.023	16	0.1	0.0	9.944	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	14	3	697	0.019	14	0.0	0.0	9.904	A
B-A	0	0	716	0.000	0	0.0	0.0	0.000	A
C-AB	0	0	650	0.000	0	0.0	0.0	0.000	A
C-A	0	0			0				
A-B	0	0			0				
A-C	0	0			0				

Appendix TN4 D

Robinson Road/ East Dock Road Priority Junction Assessment

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.4.1693
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Filename: Robinson Road-East Dock Road.j10
Path: P:\23000's\23325\Junction Assessment\2 Internal Junctions
Report generation date: 23/10/2023 14:30:58

Summary of junction performance

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-C	0.1	9.39	0.05	0.1	10.00	0.07
Stream B-A	0.1	11.26	0.04	0.1	14.49	0.04
Stream C-AB	0.1	6.17	0.03	0.1	10.56	0.04
	2025 Base					
Stream B-C	0.1	9.44	0.05	0.1	10.06	0.07
Stream B-A	0.1	11.35	0.04	0.1	14.62	0.04
Stream C-AB	0.1	6.14	0.03	0.1	10.54	0.04
	2025 + Development					
Stream B-C	0.1	9.08	0.06	0.2	10.36	0.09
Stream B-A	0.1	11.90	0.04	0.1	15.54	0.05
Stream C-AB	0.2	6.70	0.07	0.2	10.54	0.07
	2032 Base					
Stream B-C	0.1	9.49	0.05	0.2	10.20	0.08
Stream B-A	0.1	11.48	0.04	0.1	14.87	0.05
Stream C-AB	0.1	6.07	0.03	0.1	10.54	0.05
	2032 + Development					
Stream B-C	0.1	9.14	0.06	0.2	10.87	0.10
Stream B-A	0.1	12.07	0.04	0.1	15.82	0.05
Stream C-AB	0.2	6.64	0.08	0.2	10.16	0.07

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

File summary

File Description

Title	
Location	
Site number	
Date	18/05/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DTA\arcady
Description	

Units

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

Analysis Options

Vehicle length (m)	Calculate Q Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Analysis Set Details

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

2022 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.26	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.26	A

Arms

Arms

Arm	Name	Description	Arm type
A	Robinson Road N		Major
B	East Dock Road		Minor
C	Robinson Road S		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
Robinson Road S	8.51			169.2	✓	0.00

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)
East Dock Road	One lane plus flare	10.00	10.00	5.22	3.79	3.74	✓	2.00	132	186

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	674	0.109	0.276	0.174	0.394
B-C	851	0.117	0.295	-	-
C-B	672	0.232	0.232	-	-

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	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	117	100.000
East Dock Road		ONE HOUR	✓	56	100.000
Robinson Road S		ONE HOUR	✓	379	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	9	108
	East Dock Road	19	0	37
	Robinson Road S	366	13	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	100	64
	East Dock Road	70	0	100
	Robinson Road S	22	50	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.05	9.39	0.1	A	34	51
B-A	0.04	11.26	0.1	B	17	26
C-AB	0.03	6.17	0.1	A	20	30
C-A					328	492
A-B					8	12
A-C					99	149

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	821	0.034	28	0.0	0.1	9.067	A
B-A	14	4	599	0.024	14	0.0	0.0	10.457	B
C-AB	15	4	827	0.018	15	0.0	0.0	6.172	A
C-A	271	68			271				
A-B	7	2			7				
A-C	81	20			81				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	33	8	815	0.041	33	0.1	0.1	9.205	A
B-A	17	4	585	0.029	17	0.0	0.1	10.780	B
C-AB	19	5	858	0.022	19	0.0	0.0	5.940	A
C-A	322	80			322				
A-B	8	2			8				
A-C	97	24			97				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	807	0.050	41	0.1	0.1	9.391	A
B-A	21	5	565	0.037	21	0.1	0.1	11.253	B
C-AB	26	6	901	0.029	26	0.0	0.1	5.624	A
C-A	391	98			391				
A-B	10	2			10				
A-C	119	30			119				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	807	0.050	41	0.1	0.1	9.394	A
B-A	21	5	565	0.037	21	0.1	0.1	11.255	B
C-AB	26	6	901	0.029	26	0.1	0.1	5.594	A
C-A	391	98			391				
A-B	10	2			10				
A-C	119	30			119				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	33	8	815	0.041	33	0.1	0.1	9.209	A
B-A	17	4	585	0.029	17	0.1	0.1	10.782	B
C-AB	19	5	858	0.022	19	0.1	0.0	5.867	A
C-A	322	80			322				
A-B	8	2			8				
A-C	97	24			97				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	28	7	821	0.034	28	0.1	0.1	9.076	A
B-A	14	4	599	0.024	14	0.1	0.0	10.464	B
C-AB	15	4	827	0.018	15	0.0	0.0	6.135	A
C-A	271	68			271				
A-B	7	2			7				
A-C	81	20			81				

2022 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.71	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.71	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	390	100.000
East Dock Road		ONE HOUR	✓	68	100.000
Robinson Road S		ONE HOUR	✓	155	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	9	381
	East Dock Road	21	0	47
	Robinson Road S	134	21	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	60	22
	East Dock Road	100	0	86
	Robinson Road S	53	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.07	10.00	0.1	A	43	65
B-A	0.04	14.49	0.1	B	19	29
C-AB	0.04	10.56	0.1	B	24	36
C-A					118	178
A-B					8	12
A-C					350	524

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	35	9	764	0.046	35	0.0	0.1	9.183	A
B-A	16	4	568	0.028	16	0.0	0.1	13.034	B
C-AB	19	5	671	0.028	18	0.0	0.1	10.544	B
C-A	98	25			98				
A-B	7	2			7				
A-C	287	72			287				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	11	746	0.057	42	0.1	0.1	9.512	A
B-A	19	5	548	0.034	19	0.1	0.1	13.612	B
C-AB	23	6	672	0.034	23	0.1	0.1	10.560	B
C-A	116	29			116				
A-B	8	2			8				
A-C	343	86			343				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	52	13	721	0.072	52	0.1	0.1	9.998	A
B-A	23	6	520	0.044	23	0.1	0.1	14.489	B
C-AB	30	7	673	0.044	30	0.1	0.1	10.534	B
C-A	141	35			141				
A-B	10	2			10				
A-C	419	105			419				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	52	13	721	0.072	52	0.1	0.1	10.000	A
B-A	23	6	520	0.044	23	0.1	0.1	14.493	B
C-AB	30	7	673	0.044	30	0.1	0.1	10.482	B
C-A	141	35			141				
A-B	10	2			10				
A-C	419	105			419				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	11	746	0.057	42	0.1	0.1	9.518	A
B-A	19	5	548	0.034	19	0.1	0.1	13.619	B
C-AB	23	6	672	0.034	23	0.1	0.1	10.451	B
C-A	116	29			116				
A-B	8	2			8				
A-C	343	86			343				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	35	9	764	0.046	35	0.1	0.1	9.195	A
B-A	16	4	568	0.028	16	0.1	0.1	13.047	B
C-AB	19	5	671	0.028	19	0.1	0.1	10.498	B
C-A	98	25			98				
A-B	7	2			7				
A-C	287	72			287				

2025 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.28	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.28	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	121	100.000
East Dock Road		ONE HOUR	✓	58	100.000
Robinson Road S		ONE HOUR	✓	391	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	9	112
	East Dock Road	20	0	38
	Robinson Road S	377	14	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	100	64
	East Dock Road	70	0	100
	Robinson Road S	22	50	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.05	9.44	0.1	A	35	52
B-A	0.04	11.35	0.1	B	18	28
C-AB	0.03	6.14	0.1	A	22	33
C-A					337	506
A-B					8	12
A-C					103	154

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	29	7	820	0.035	28	0.0	0.1	9.097	A
B-A	15	4	597	0.025	15	0.0	0.0	10.505	B
C-AB	16	4	832	0.019	16	0.0	0.0	6.136	A
C-A	278	70			278				
A-B	7	2			7				
A-C	84	21			84				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	34	9	813	0.042	34	0.1	0.1	9.240	A
B-A	18	4	582	0.031	18	0.0	0.1	10.846	B
C-AB	21	5	864	0.024	21	0.0	0.0	5.902	A
C-A	331	83			331				
A-B	8	2			8				
A-C	101	25			101				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	10	805	0.052	42	0.1	0.1	9.435	A
B-A	22	6	561	0.039	22	0.1	0.1	11.344	B
C-AB	28	7	908	0.031	28	0.0	0.1	5.584	A
C-A	402	101			402				
A-B	10	2			10				
A-C	123	31			123				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	10	805	0.052	42	0.1	0.1	9.437	A
B-A	22	6	561	0.039	22	0.1	0.1	11.347	B
C-AB	28	7	908	0.031	28	0.1	0.1	5.554	A
C-A	402	101			402				
A-B	10	2			10				
A-C	123	31			123				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	34	9	813	0.042	34	0.1	0.1	9.243	A
B-A	18	4	582	0.031	18	0.1	0.1	10.850	B
C-AB	21	5	864	0.024	21	0.1	0.0	5.828	A
C-A	331	83			331				
A-B	8	2			8				
A-C	101	25			101				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	29	7	819	0.035	29	0.1	0.1	9.106	A
B-A	15	4	597	0.025	15	0.1	0.0	10.515	B
C-AB	16	4	832	0.019	16	0.0	0.0	6.098	A
C-A	278	70			278				
A-B	7	2			7				
A-C	84	21			84				

2025 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.69	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.69	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	401	100.000
East Dock Road		ONE HOUR	✓	69	100.000
Robinson Road S		ONE HOUR	✓	159	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	9	392
	East Dock Road	21	0	48
	Robinson Road S	138	21	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	60	22
	East Dock Road	100	0	86
	Robinson Road S	53	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.07	10.06	0.1	B	44	66
B-A	0.04	14.62	0.1	B	19	29
C-AB	0.04	10.54	0.1	B	24	36
C-A					122	183
A-B					8	12
A-C					360	540

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	36	9	762	0.047	36	0.0	0.1	9.215	A
B-A	16	4	565	0.028	16	0.0	0.1	13.110	B
C-AB	19	5	671	0.028	18	0.0	0.1	10.529	B
C-A	101	25			101				
A-B	7	2			7				
A-C	295	74			295				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	43	11	744	0.058	43	0.1	0.1	9.557	A
B-A	19	5	544	0.035	19	0.1	0.1	13.709	B
C-AB	23	6	672	0.035	23	0.1	0.1	10.542	B
C-A	120	30			120				
A-B	8	2			8				
A-C	352	88			352				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	53	13	718	0.074	53	0.1	0.1	10.058	B
B-A	23	6	515	0.045	23	0.1	0.1	14.621	B
C-AB	30	7	673	0.044	30	0.1	0.1	10.513	B
C-A	145	36			145				
A-B	10	2			10				
A-C	432	108			432				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	53	13	718	0.074	53	0.1	0.1	10.064	B
B-A	23	6	515	0.045	23	0.1	0.1	14.624	B
C-AB	30	7	673	0.045	30	0.1	0.1	10.461	B
C-A	145	36			145				
A-B	10	2			10				
A-C	432	108			432				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	43	11	743	0.058	43	0.1	0.1	9.564	A
B-A	19	5	544	0.035	19	0.1	0.1	13.716	B
C-AB	23	6	672	0.035	23	0.1	0.1	10.431	B
C-A	120	30			120				
A-B	8	2			8				
A-C	352	88			352				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	36	9	762	0.047	36	0.1	0.1	9.231	A
B-A	16	4	565	0.028	16	0.1	0.1	13.123	B
C-AB	19	5	671	0.028	19	0.1	0.1	10.479	B
C-A	101	25			101				
A-B	7	2			7				
A-C	295	74			295				

2025 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.48	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.48	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	160	100.000
East Dock Road		ONE HOUR	✓	60	100.000
Robinson Road S		ONE HOUR	✓	433	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	9	151
	East Dock Road	20	0	40
	Robinson Road S	402	31	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	100	69
	East Dock Road	70	0	89
	Robinson Road S	24	69	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.06	9.08	0.1	A	37	55
B-A	0.04	11.90	0.1	B	18	28
C-AB	0.07	6.70	0.2	A	50	75
C-A					347	521
A-B					8	12
A-C					139	208

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	30	8	812	0.037	30	0.0	0.1	8.694	A
B-A	15	4	580	0.026	15	0.0	0.0	10.830	B
C-AB	37	9	838	0.044	36	0.0	0.1	6.705	A
C-A	289	72			289				
A-B	7	2			7				
A-C	114	28			114				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	36	9	804	0.045	36	0.1	0.1	8.855	A
B-A	18	4	561	0.032	18	0.0	0.1	11.259	B
C-AB	48	12	872	0.055	48	0.1	0.1	6.464	A
C-A	341	85			341				
A-B	8	2			8				
A-C	136	34			136				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	44	11	793	0.056	44	0.1	0.1	9.079	A
B-A	22	6	536	0.041	22	0.1	0.1	11.898	B
C-AB	66	17	919	0.072	66	0.1	0.2	6.127	A
C-A	411	103			411				
A-B	10	2			10				
A-C	166	42			166				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	44	11	793	0.056	44	0.1	0.1	9.082	A
B-A	22	6	536	0.041	22	0.1	0.1	11.901	B
C-AB	66	17	919	0.072	66	0.2	0.2	6.075	A
C-A	411	103			411				
A-B	10	2			10				
A-C	166	42			166				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	36	9	804	0.045	36	0.1	0.1	8.858	A
B-A	18	4	561	0.032	18	0.1	0.1	11.265	B
C-AB	48	12	872	0.055	48	0.2	0.1	6.333	A
C-A	341	85			341				
A-B	8	2			8				
A-C	136	34			136				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	30	8	812	0.037	30	0.1	0.1	8.704	A
B-A	15	4	580	0.026	15	0.1	0.0	10.842	B
C-AB	37	9	838	0.044	37	0.1	0.1	6.640	A
C-A	289	72			289				
A-B	7	2			7				
A-C	114	28			114				

2025 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.83	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.83	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	453	100.000
East Dock Road		ONE HOUR	✓	77	100.000
Robinson Road S		ONE HOUR	✓	202	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	9	444
	East Dock Road	21	0	56
	Robinson Road S	171	31	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	60	26
	East Dock Road	100	0	85
	Robinson Road S	57	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.09	10.36	0.2	B	51	77
B-A	0.05	15.54	0.1	C	19	29
C-AB	0.07	10.54	0.2	B	37	56
C-A					148	222
A-B					8	12
A-C					407	611

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	11	732	0.058	42	0.0	0.1	9.639	A
B-A	16	4	544	0.029	16	0.0	0.1	13.625	B
C-AB	29	7	679	0.042	28	0.0	0.1	10.513	B
C-A	123	31			123				
A-B	7	2			7				
A-C	334	84			334				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	50	13	733	0.069	50	0.1	0.1	9.753	A
B-A	19	5	520	0.036	19	0.1	0.1	14.372	B
C-AB	36	9	682	0.053	36	0.1	0.1	10.544	B
C-A	146	36			146				
A-B	8	2			8				
A-C	399	100			399				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	15	704	0.088	61	0.1	0.2	10.359	B
B-A	23	6	486	0.048	23	0.1	0.1	15.531	C
C-AB	47	12	686	0.069	47	0.1	0.2	10.533	B
C-A	175	44			175				
A-B	10	2			10				
A-C	489	122			489				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	15	704	0.088	62	0.2	0.2	10.364	B
B-A	23	6	486	0.048	23	0.1	0.1	15.539	C
C-AB	47	12	686	0.069	47	0.2	0.2	10.476	B
C-A	175	44			175				
A-B	10	2			10				
A-C	489	122			489				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	50	13	733	0.069	50	0.2	0.1	9.763	A
B-A	19	5	520	0.036	19	0.1	0.1	14.384	B
C-AB	36	9	682	0.053	36	0.2	0.2	10.425	B
C-A	145	36			145				
A-B	8	2			8				
A-C	399	100			399				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	11	754	0.056	42	0.1	0.1	9.365	A
B-A	16	4	544	0.029	16	0.1	0.1	13.642	B
C-AB	29	7	679	0.043	29	0.2	0.1	10.466	B
C-A	123	31			123				
A-B	7	2			7				
A-C	334	84			334				

2032 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.29	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.29	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	127	100.000
East Dock Road		ONE HOUR	✓	61	100.000
Robinson Road S		ONE HOUR	✓	408	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	10	117
	East Dock Road	21	0	40
	Robinson Road S	394	14	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	100	64
	East Dock Road	70	0	100
	Robinson Road S	22	50	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.05	9.49	0.1	A	37	55
B-A	0.04	11.48	0.1	B	19	29
C-AB	0.03	6.07	0.1	A	22	33
C-A					352	528
A-B					9	14
A-C					107	161

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	30	8	818	0.037	30	0.0	0.1	9.131	A
B-A	16	4	594	0.027	16	0.0	0.0	10.580	B
C-AB	16	4	839	0.019	16	0.0	0.0	6.068	A
C-A	291	73			291				
A-B	8	2			8				
A-C	88	22			88				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	36	9	812	0.044	36	0.1	0.1	9.282	A
B-A	19	5	578	0.033	19	0.0	0.1	10.942	B
C-AB	21	5	873	0.024	21	0.0	0.0	5.828	A
C-A	346	86			346				
A-B	9	2			9				
A-C	105	26			105				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	44	11	803	0.055	44	0.1	0.1	9.489	A
B-A	23	6	556	0.042	23	0.1	0.1	11.473	B
C-AB	29	7	919	0.032	29	0.0	0.1	5.505	A
C-A	420	105			420				
A-B	11	3			11				
A-C	129	32			129				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	44	11	803	0.055	44	0.1	0.1	9.491	A
B-A	23	6	556	0.042	23	0.1	0.1	11.475	B
C-AB	29	7	919	0.032	29	0.1	0.1	5.474	A
C-A	420	105			420				
A-B	11	3			11				
A-C	129	32			129				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	36	9	812	0.044	36	0.1	0.1	9.287	A
B-A	19	5	578	0.033	19	0.1	0.1	10.945	B
C-AB	21	5	873	0.024	21	0.1	0.0	5.754	A
C-A	346	86			346				
A-B	9	2			9				
A-C	105	26			105				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	30	8	818	0.037	30	0.1	0.1	9.141	A
B-A	16	4	594	0.027	16	0.1	0.0	10.590	B
C-AB	16	4	839	0.019	16	0.0	0.0	6.027	A
C-A	291	73			291				
A-B	8	2			8				
A-C	88	22			88				

2032 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.72	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.72	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	420	100.000
East Dock Road		ONE HOUR	✓	72	100.000
Robinson Road S		ONE HOUR	✓	166	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	10	410
	East Dock Road	22	0	50
	Robinson Road S	144	22	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	60	22
	East Dock Road	100	0	86
	Robinson Road S	53	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.08	10.20	0.2	B	46	69
B-A	0.05	14.87	0.1	B	20	30
C-AB	0.05	10.54	0.1	B	25	38
C-A					127	190
A-B					9	14
A-C					376	564

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	38	9	757	0.050	37	0.0	0.1	9.292	A
B-A	17	4	560	0.030	16	0.0	0.1	13.243	B
C-AB	20	5	671	0.029	19	0.0	0.1	10.527	B
C-A	105	26			105				
A-B	8	2			8				
A-C	309	77			309				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	45	11	738	0.061	45	0.1	0.1	9.656	A
B-A	20	5	538	0.037	20	0.1	0.1	13.884	B
C-AB	25	6	672	0.037	24	0.1	0.1	10.542	B
C-A	125	31			125				
A-B	9	2			9				
A-C	369	92			369				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	55	14	712	0.077	55	0.1	0.2	10.193	B
B-A	24	6	508	0.048	24	0.1	0.1	14.863	B
C-AB	32	8	674	0.047	32	0.1	0.1	10.514	B
C-A	151	38			151				
A-B	11	3			11				
A-C	451	113			451				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	55	14	712	0.077	55	0.2	0.2	10.198	B
B-A	24	6	508	0.048	24	0.1	0.1	14.871	B
C-AB	32	8	674	0.047	32	0.1	0.1	10.461	B
C-A	151	38			151				
A-B	11	3			11				
A-C	451	113			451				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	45	11	738	0.061	45	0.2	0.1	9.665	A
B-A	20	5	538	0.037	20	0.1	0.1	13.892	B
C-AB	25	6	672	0.037	25	0.1	0.1	10.424	B
C-A	125	31			125				
A-B	9	2			9				
A-C	369	92			369				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	38	9	757	0.050	38	0.1	0.1	9.307	A
B-A	17	4	560	0.030	17	0.1	0.1	13.260	B
C-AB	20	5	671	0.030	20	0.1	0.1	10.475	B
C-A	105	26			105				
A-B	8	2			8				
A-C	309	77			309				

2032 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.52	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.52	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	167	100.000
East Dock Road		ONE HOUR	✓	63	100.000
Robinson Road S		ONE HOUR	✓	452	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	10	157
	East Dock Road	21	0	42
	Robinson Road S	419	33	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	100	69
	East Dock Road	70	0	89
	Robinson Road S	24	69	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.06	9.14	0.1	A	39	58
B-A	0.04	12.07	0.1	B	19	29
C-AB	0.08	6.64	0.2	A	55	82
C-A					360	540
A-B					9	14
A-C					144	216

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	810	0.039	31	0.0	0.1	8.732	A
B-A	16	4	576	0.027	16	0.0	0.0	10.925	B
C-AB	40	10	846	0.047	39	0.0	0.1	6.645	A
C-A	301	75			301				
A-B	8	2			8				
A-C	118	30			118				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	38	9	802	0.047	38	0.1	0.1	8.900	A
B-A	19	5	557	0.034	19	0.0	0.1	11.382	B
C-AB	52	13	881	0.059	52	0.1	0.1	6.406	A
C-A	354	89			354				
A-B	9	2			9				
A-C	141	35			141				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	46	12	791	0.058	46	0.1	0.1	9.138	A
B-A	23	6	530	0.044	23	0.1	0.1	12.066	B
C-AB	72	18	929	0.078	72	0.1	0.2	6.069	A
C-A	425	106			425				
A-B	11	3			11				
A-C	173	43			173				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	46	12	791	0.058	46	0.1	0.1	9.140	A
B-A	23	6	530	0.044	23	0.1	0.1	12.070	B
C-AB	73	18	930	0.078	73	0.2	0.2	6.016	A
C-A	425	106			425				
A-B	11	3			11				
A-C	173	43			173				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	38	9	802	0.047	38	0.1	0.1	8.905	A
B-A	19	5	556	0.034	19	0.1	0.1	11.388	B
C-AB	52	13	881	0.059	52	0.2	0.1	6.275	A
C-A	354	89			354				
A-B	9	2			9				
A-C	141	35			141				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	32	8	810	0.039	32	0.1	0.1	8.739	A
B-A	16	4	576	0.027	16	0.1	0.0	10.937	B
C-AB	40	10	846	0.047	40	0.1	0.1	6.579	A
C-A	300	75			300				
A-B	8	2			8				
A-C	118	30			118				

2032 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.87	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.87	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	472	100.000
East Dock Road		ONE HOUR	✓	81	100.000
Robinson Road S		ONE HOUR	✓	209	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	10	462
	East Dock Road	22	0	59
	Robinson Road S	177	32	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	East Dock Road	Robinson Road S
From	Robinson Road N	0	60	26
	East Dock Road	100	0	85
	Robinson Road S	37	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.10	10.87	0.2	B	54	81
B-A	0.05	15.82	0.1	C	20	30
C-AB	0.07	10.16	0.2	B	39	59
C-A					153	229
A-B					9	14
A-C					424	636

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	44	11	728	0.061	44	0.0	0.1	9.728	A
B-A	17	4	539	0.031	16	0.0	0.1	13.774	B
C-AB	30	7	679	0.044	30	0.0	0.1	10.163	B
C-A	127	32			127				
A-B	8	2			8				
A-C	348	87			348				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	53	13	707	0.075	53	0.1	0.1	10.182	B
B-A	20	5	514	0.038	20	0.1	0.1	14.570	B
C-AB	38	9	682	0.055	37	0.1	0.2	10.159	B
C-A	150	38			150				
A-B	9	2			9				
A-C	415	104			415				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	65	16	678	0.096	65	0.1	0.2	10.859	B
B-A	24	6	479	0.051	24	0.1	0.1	15.817	C
C-AB	49	12	687	0.072	49	0.2	0.2	10.080	B
C-A	181	45			181				
A-B	11	3			11				
A-C	509	127			509				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	65	16	678	0.096	65	0.2	0.2	10.866	B
B-A	24	6	479	0.051	24	0.1	0.1	15.824	C
C-AB	49	12	687	0.072	49	0.2	0.2	9.988	A
C-A	181	45			181				
A-B	11	3			11				
A-C	509	127			509				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	53	13	707	0.075	53	0.2	0.2	10.190	B
B-A	20	5	514	0.039	20	0.1	0.1	14.581	B
C-AB	38	9	682	0.055	38	0.2	0.2	9.964	A
C-A	150	38			150				
A-B	9	2			9				
A-C	415	104			415				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	44	11	728	0.061	45	0.2	0.1	9.747	A
B-A	17	4	539	0.031	17	0.1	0.1	13.792	B
C-AB	30	8	679	0.044	30	0.2	0.1	10.075	B
C-A	127	32			127				
A-B	8	2			8				
A-C	348	87			348				

Appendix TN4 E

Robinson Road/ East Riverside Priority Junction Assessment

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.4.1693
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Filename: Robinson Road-East Riverside.j10
Path: P:\23000's\23325\Junction Assessment\2 Internal Junctions
Report generation date: 23/10/2023 14:32:28

Summary of junction performance

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-C	0.0	5.59	0.02	0.1	5.64	0.05
Stream B-A	0.1	10.09	0.05	0.1	12.74	0.03
Stream C-AB	0.2	5.29	0.07	0.0	10.40	0.01
	2025 Base					
Stream B-C	0.0	5.62	0.02	0.1	5.68	0.05
Stream B-A	0.1	10.17	0.05	0.1	12.86	0.03
Stream C-AB	0.2	5.35	0.08	0.0	10.41	0.01
	2025 + Development					
Stream B-C	0.0	6.22	0.02	0.0	5.78	0.04
Stream B-A	0.1	12.02	0.06	0.1	15.90	0.03
Stream C-AB	0.3	5.12	0.10	0.0	8.76	0.02
	2032 Base					
Stream B-C	0.0	9.54	0.02	0.1	5.73	0.05
Stream B-A	0.1	6.87	0.06	0.1	13.03	0.03
Stream C-AB	0.3	8.18	0.08	0.0	10.42	0.01
	2032 + Development					
Stream B-C	0.0	6.25	0.02	0.0	5.85	0.04
Stream B-A	0.1	12.19	0.07	0.1	16.23	0.03
Stream C-AB	0.3	5.08	0.10	0.0	8.76	0.02

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

File summary

File Description

Title	
Location	
Site number	
Date	18/05/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DTA\arcady
Description	

Units

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

Analysis Options

Vehicle length (m)	Calculate Q Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Analysis Set Details

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

2022 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.12	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.12	A

Arms

Arms

Arm	Name	Description	Arm type
A	Robinson Road W		Major
B	East Riverside		Minor
C	Robinson Road E		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
Robinson Road E	9.29			250.0	✓	0.00

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)
East Riverside	One lane plus flare	10.00	6.19	3.52	3.23	3.04	✓	1.00	96	242

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	681	0.105	0.266	0.168	0.381
B-C	822	0.109	0.275	-	-
C-B	719	0.239	0.239	-	-

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	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road W		ONE HOUR	✓	133	100.000
East Riverside		ONE HOUR	✓	40	100.000
Robinson Road E		ONE HOUR	✓	397	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	21	112
	East Riverside	26	0	14
	Robinson Road E	362	35	0

Vehicle Mix

HV %s

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	58	74
	East Riverside	50	0	18
	Robinson Road E	19	22	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	5.59	0.0	A	13	19
B-A	0.05	10.09	0.1	B	24	36
C-AB	0.07	5.29	0.2	A	52	78
C-A					312	468
A-B					19	29
A-C					103	154

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	790	0.013	10	0.0	0.0	5.448	A
B-A	20	5	601	0.033	19	0.0	0.0	9.285	A
C-AB	39	10	862	0.045	38	0.0	0.1	5.287	A
C-A	260	65			260				
A-B	16	4			16				
A-C	84	21			84				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	784	0.016	13	0.0	0.0	5.508	A
B-A	23	6	585	0.040	23	0.0	0.1	9.610	A
C-AB	50	12	891	0.056	50	0.1	0.1	5.178	A
C-A	307	77			307				
A-B	19	5			19				
A-C	101	25			101				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	775	0.020	15	0.0	0.0	5.593	A
B-A	29	7	564	0.051	29	0.1	0.1	10.088	B
C-AB	68	17	931	0.073	67	0.1	0.2	5.037	A
C-A	370	92			370				
A-B	23	6			23				
A-C	123	31			123				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	775	0.020	15	0.0	0.0	5.594	A
B-A	29	7	564	0.051	29	0.1	0.1	10.090	B
C-AB	68	17	931	0.073	68	0.2	0.2	5.034	A
C-A	369	92			369				
A-B	23	6			23				
A-C	123	31			123				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	783	0.016	13	0.0	0.0	5.510	A
B-A	23	6	585	0.040	23	0.1	0.1	9.615	A
C-AB	50	12	891	0.056	50	0.2	0.1	5.171	A
C-A	307	77			307				
A-B	19	5			19				
A-C	101	25			101				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	790	0.013	11	0.0	0.0	5.453	A
B-A	20	5	601	0.033	20	0.1	0.1	9.293	A
C-AB	39	10	862	0.045	39	0.1	0.1	5.290	A
C-A	260	65			260				
A-B	16	4			16				
A-C	84	21			84				

2022 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.80	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.80	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road W		ONE HOUR	✓	399	100.000
East Riverside		ONE HOUR	✓	45	100.000
Robinson Road E		ONE HOUR	✓	91	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	27	372
	East Riverside	13	0	32
	Robinson Road E	84	7	0

Vehicle Mix

HV %s

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	60	23
	East Riverside	83	0	7
	Robinson Road E	52	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.05	5.64	0.1	A	29	44
B-A	0.03	12.74	0.1	B	12	18
C-AB	0.01	10.40	0.0	B	7	11
C-A					76	114
A-B					25	37
A-C					341	512

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	24	6	757	0.032	24	0.0	0.0	5.255	A
B-A	10	2	571	0.017	10	0.0	0.0	11.734	B
C-AB	6	1	688	0.008	6	0.0	0.0	10.262	B
C-A	63	16			63				
A-B	20	5			20				
A-C	280	70			280				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	29	7	740	0.039	29	0.0	0.0	5.411	A
B-A	12	3	554	0.021	12	0.0	0.0	12.138	B
C-AB	7	2	682	0.010	7	0.0	0.0	10.330	B
C-A	75	19			75				
A-B	24	6			24				
A-C	334	84			334				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	35	9	718	0.049	35	0.0	0.1	5.643	A
B-A	14	4	531	0.027	14	0.0	0.0	12.745	B
C-AB	9	2	675	0.013	9	0.0	0.0	10.396	B
C-A	91	23			91				
A-B	30	7			30				
A-C	410	102			410				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	35	9	718	0.049	35	0.1	0.1	5.643	A
B-A	14	4	531	0.027	14	0.0	0.1	12.744	B
C-AB	9	2	675	0.013	9	0.0	0.0	10.361	B
C-A	91	23			91				
A-B	30	7			30				
A-C	410	102			410				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	29	7	740	0.039	29	0.1	0.0	5.413	A
B-A	12	3	554	0.021	12	0.1	0.0	12.140	B
C-AB	7	2	682	0.010	7	0.0	0.0	10.255	B
C-A	75	19			75				
A-B	24	6			24				
A-C	334	84			334				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	24	6	757	0.032	24	0.0	0.0	5.257	A
B-A	10	2	571	0.017	10	0.0	0.0	11.736	B
C-AB	6	1	688	0.008	6	0.0	0.0	10.228	B
C-A	63	16			63				
A-B	20	5			20				
A-C	280	70			280				

2025 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.14	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.14	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road W		ONE HOUR	✓	137	100.000
East Riverside		ONE HOUR	✓	41	100.000
Robinson Road E		ONE HOUR	✓	409	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	22	115
	East Riverside	27	0	14
	Robinson Road E	373	36	0

Vehicle Mix

HV %s

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	58	74
	East Riverside	50	0	18
	Robinson Road E	19	25	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	5.62	0.0	A	13	19
B-A	0.05	10.17	0.1	B	25	37
C-AB	0.08	5.35	0.2	A	54	81
C-A					321	482
A-B					20	30
A-C					106	158

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	787	0.013	10	0.0	0.0	5.468	A
B-A	20	5	599	0.034	20	0.0	0.1	9.325	A
C-AB	40	10	867	0.046	40	0.0	0.1	5.354	A
C-A	268	67			268				
A-B	17	4			17				
A-C	87	22			87				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	781	0.016	13	0.0	0.0	5.531	A
B-A	24	6	583	0.042	24	0.1	0.1	9.664	A
C-AB	52	13	896	0.058	52	0.1	0.1	5.237	A
C-A	316	79			316				
A-B	20	5			20				
A-C	103	26			103				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	771	0.020	15	0.0	0.0	5.618	A
B-A	30	7	561	0.053	30	0.1	0.1	10.164	B
C-AB	71	18	938	0.075	71	0.1	0.2	5.087	A
C-A	380	95			380				
A-B	24	6			24				
A-C	127	32			127				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	771	0.020	15	0.0	0.0	5.619	A
B-A	30	7	561	0.053	30	0.1	0.1	10.167	B
C-AB	71	18	938	0.076	71	0.2	0.2	5.082	A
C-A	379	95			379				
A-B	24	6			24				
A-C	127	32			127				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	780	0.016	13	0.0	0.0	5.532	A
B-A	24	6	583	0.042	24	0.1	0.1	9.667	A
C-AB	52	13	896	0.058	52	0.2	0.1	5.225	A
C-A	316	79			316				
A-B	20	5			20				
A-C	103	26			103				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	787	0.013	11	0.0	0.0	5.473	A
B-A	20	5	599	0.034	20	0.1	0.1	9.333	A
C-AB	40	10	867	0.046	40	0.1	0.1	5.352	A
C-A	268	67			268				
A-B	17	4			17				
A-C	87	22			87				

2025 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.80	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.80	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road W		ONE HOUR	✓	410	100.000
East Riverside		ONE HOUR	✓	46	100.000
Robinson Road E		ONE HOUR	✓	93	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	27	383
	East Riverside	13	0	33
	Robinson Road E	86	7	0

Vehicle Mix

HV %s

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	60	23
	East Riverside	83	0	7
	Robinson Road E	52	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.05	5.68	0.1	A	30	45
B-A	0.03	12.86	0.1	B	12	18
C-AB	0.01	10.41	0.0	B	7	11
C-A					78	117
A-B					25	37
A-C					351	527

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	25	6	755	0.033	25	0.0	0.0	5.271	A
B-A	10	2	568	0.017	10	0.0	0.0	11.806	B
C-AB	6	1	687	0.008	6	0.0	0.0	10.269	B
C-A	64	16			64				
A-B	20	5			20				
A-C	288	72			288				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	30	7	738	0.040	30	0.0	0.0	5.436	A
B-A	12	3	551	0.021	12	0.0	0.0	12.226	B
C-AB	7	2	681	0.010	7	0.0	0.0	10.339	B
C-A	76	19			76				
A-B	24	6			24				
A-C	344	86			344				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	36	9	715	0.051	36	0.0	0.1	5.676	A
B-A	14	4	527	0.027	14	0.0	0.1	12.856	B
C-AB	9	2	674	0.013	9	0.0	0.0	10.407	B
C-A	93	23			93				
A-B	30	7			30				
A-C	422	105			422				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	36	9	715	0.051	36	0.1	0.1	5.677	A
B-A	14	4	527	0.027	14	0.1	0.1	12.855	B
C-AB	9	2	674	0.013	9	0.0	0.0	10.370	B
C-A	93	23			93				
A-B	30	7			30				
A-C	422	105			422				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	30	7	738	0.040	30	0.1	0.0	5.437	A
B-A	12	3	551	0.021	12	0.1	0.0	12.227	B
C-AB	7	2	681	0.010	7	0.0	0.0	10.264	B
C-A	76	19			76				
A-B	24	6			24				
A-C	344	86			344				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	25	6	755	0.033	25	0.0	0.0	5.277	A
B-A	10	2	568	0.017	10	0.0	0.0	11.808	B
C-AB	6	1	687	0.008	6	0.0	0.0	10.234	B
C-A	64	16			64				
A-B	20	5			20				
A-C	288	72			288				

2025 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.86	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.86	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road W		ONE HOUR	✓	280	100.000
East Riverside		ONE HOUR	✓	39	100.000
Robinson Road E		ONE HOUR	✓	635	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	22	258
	East Riverside	27	0	12
	Robinson Road E	599	36	0

Vehicle Mix

HV %s

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	58	80
	East Riverside	50	0	22
	Robinson Road E	34	22	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	6.22	0.0	A	11	17
B-A	0.06	12.02	0.1	B	25	37
C-AB	0.10	5.12	0.3	A	75	113
C-A					507	761
A-B					20	30
A-C					237	355

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	750	0.012	9	0.0	0.0	5.928	A
B-A	20	5	544	0.037	20	0.0	0.1	10.305	B
C-AB	51	13	952	0.054	51	0.0	0.1	5.091	A
C-A	427	107			427				
A-B	17	4			17				
A-C	194	49			194				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	737	0.015	11	0.0	0.0	6.045	A
B-A	24	6	517	0.047	24	0.1	0.1	10.965	B
C-AB	70	18	1000	0.070	70	0.1	0.2	4.949	A
C-A	500	125			500				
A-B	20	5			20				
A-C	232	58			232				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	720	0.018	13	0.0	0.0	6.215	A
B-A	30	7	479	0.062	30	0.1	0.1	12.014	B
C-AB	104	26	1069	0.097	104	0.2	0.3	4.807	A
C-A	595	149			595				
A-B	24	6			24				
A-C	284	71			284				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	720	0.018	13	0.0	0.0	6.216	A
B-A	30	7	479	0.062	30	0.1	0.1	12.021	B
C-AB	104	26	1069	0.098	104	0.3	0.3	4.827	A
C-A	595	149			595				
A-B	24	6			24				
A-C	284	71			284				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	737	0.015	11	0.0	0.0	6.050	A
B-A	24	6	517	0.047	24	0.1	0.1	10.973	B
C-AB	71	18	1001	0.071	71	0.3	0.2	4.995	A
C-A	500	125			500				
A-B	20	5			20				
A-C	232	58			232				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	749	0.012	9	0.0	0.0	5.934	A
B-A	20	5	544	0.037	20	0.1	0.1	10.320	B
C-AB	52	13	952	0.054	52	0.2	0.1	5.117	A
C-A	426	107			426				
A-B	17	4			17				
A-C	194	49			194				

2025 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.44	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.44	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road W		ONE HOUR	✓	604	100.000
East Riverside		ONE HOUR	✓	37	100.000
Robinson Road E		ONE HOUR	✓	386	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	27	577
	East Riverside	13	0	24
	Robinson Road E	379	7	0

Vehicle Mix

HV %s

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	60	35
	East Riverside	83	0	0
	Robinson Road E	80	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.04	5.78	0.0	A	22	33
B-A	0.03	15.90	0.1	C	12	18
C-AB	0.02	8.76	0.0	A	11	17
C-A					343	514
A-B					25	37
A-C					529	794

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	5	708	0.026	18	0.0	0.0	5.215	A
B-A	10	2	505	0.019	10	0.0	0.0	13.309	B
C-AB	8	2	799	0.010	8	0.0	0.0	8.757	A
C-A	282	71			282				
A-B	20	5			20				
A-C	434	109			434				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	5	683	0.032	22	0.0	0.0	5.440	A
B-A	12	3	473	0.025	12	0.0	0.0	14.287	B
C-AB	11	3	818	0.013	11	0.0	0.0	8.543	A
C-A	336	84			336				
A-B	24	6			24				
A-C	519	130			519				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	26	7	649	0.041	26	0.0	0.0	5.783	A
B-A	14	4	428	0.033	14	0.0	0.1	15.902	C
C-AB	15	4	848	0.018	15	0.0	0.0	8.227	A
C-A	410	102			410				
A-B	30	7			30				
A-C	635	159			635				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	26	7	649	0.041	26	0.0	0.0	5.784	A
B-A	14	4	429	0.033	14	0.1	0.1	15.904	C
C-AB	15	4	848	0.018	15	0.0	0.0	8.201	A
C-A	410	102			410				
A-B	30	7			30				
A-C	635	159			635				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	5	683	0.032	22	0.0	0.0	5.442	A
B-A	12	3	473	0.025	12	0.1	0.0	14.289	B
C-AB	11	3	818	0.013	11	0.0	0.0	8.479	A
C-A	336	84			336				
A-B	24	6			24				
A-C	519	130			519				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	5	708	0.026	18	0.0	0.0	5.218	A
B-A	10	2	505	0.019	10	0.0	0.0	13.306	B
C-AB	8	2	799	0.010	8	0.0	0.0	8.725	A
C-A	282	71			282				
A-B	20	5			20				
A-C	434	109			434				

2032 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.38	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.38	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road W		ONE HOUR	✓	143	100.000
East Riverside		ONE HOUR	✓	43	100.000
Robinson Road E		ONE HOUR	✓	427	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	23	120
	East Riverside	28	0	15
	Robinson Road E	390	37	0

Vehicle Mix

HV %s

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	0	21
	East Riverside	0	0	100
	Robinson Road E	71	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	9.54	0.0	A	14	21
B-A	0.06	6.87	0.1	A	26	39
C-AB	0.08	8.18	0.3	A	57	86
C-A					335	502
A-B					21	32
A-C					110	165

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	787	0.014	11	0.0	0.0	9.275	A
B-A	21	5	595	0.035	21	0.0	0.0	6.270	A
C-AB	42	10	874	0.048	41	0.0	0.1	8.183	A
C-A	280	70			280				
A-B	17	4			17				
A-C	90	23			90				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	781	0.017	13	0.0	0.0	9.385	A
B-A	25	6	578	0.044	25	0.0	0.0	6.510	A
C-AB	55	14	905	0.060	54	0.1	0.2	7.975	A
C-A	329	82			329				
A-B	21	5			21				
A-C	108	27			108				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	17	4	771	0.021	16	0.0	0.0	9.544	A
B-A	31	8	555	0.056	31	0.0	0.1	6.867	A
C-AB	75	19	948	0.079	75	0.2	0.3	7.691	A
C-A	395	99			395				
A-B	25	6			25				
A-C	132	33			132				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	17	4	771	0.021	17	0.0	0.0	9.544	A
B-A	31	8	555	0.056	31	0.1	0.1	6.868	A
C-AB	75	19	948	0.079	75	0.3	0.3	7.658	A
C-A	395	99			395				
A-B	25	6			25				
A-C	132	33			132				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	781	0.017	14	0.0	0.0	9.387	A
B-A	25	6	578	0.044	25	0.1	0.0	6.513	A
C-AB	55	14	905	0.060	55	0.3	0.2	7.901	A
C-A	329	82			329				
A-B	21	5			21				
A-C	108	27			108				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	788	0.014	11	0.0	0.0	9.277	A
B-A	21	5	595	0.035	21	0.0	0.0	6.278	A
C-AB	42	11	874	0.048	42	0.2	0.1	8.154	A
C-A	279	70			279				
A-B	17	4			17				
A-C	90	23			90				

2032 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.78	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.78	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road W		ONE HOUR	✓	430	100.000
East Riverside		ONE HOUR	✓	47	100.000
Robinson Road E		ONE HOUR	✓	97	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	29	401
	East Riverside	13	0	34
	Robinson Road E	90	7	0

Vehicle Mix

HV %s

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	60	23
	East Riverside	83	0	7
	Robinson Road E	52	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.05	5.73	0.1	A	31	47
B-A	0.03	13.03	0.1	B	12	18
C-AB	0.01	10.42	0.0	B	7	11
C-A					82	122
A-B					27	40
A-C					368	552

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	26	6	752	0.034	25	0.0	0.0	5.302	A
B-A	10	2	562	0.017	10	0.0	0.0	11.916	B
C-AB	6	1	685	0.009	6	0.0	0.0	10.278	B
C-A	67	17			67				
A-B	22	5			22				
A-C	302	75			302				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	31	8	734	0.042	31	0.0	0.0	5.476	A
B-A	12	3	545	0.021	12	0.0	0.0	12.361	B
C-AB	7	2	679	0.011	7	0.0	0.0	10.351	B
C-A	80	20			80				
A-B	26	7			26				
A-C	360	90			360				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	37	9	709	0.053	37	0.0	0.1	5.731	A
B-A	14	4	520	0.028	14	0.0	0.1	13.033	B
C-AB	9	2	672	0.013	9	0.0	0.0	10.420	B
C-A	98	24			98				
A-B	32	8			32				
A-C	442	110			442				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	37	9	709	0.053	37	0.1	0.1	5.731	A
B-A	14	4	520	0.028	14	0.1	0.1	13.032	B
C-AB	9	2	672	0.013	9	0.0	0.0	10.380	B
C-A	98	24			98				
A-B	32	8			32				
A-C	442	110			442				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	31	8	734	0.042	31	0.1	0.0	5.479	A
B-A	12	3	545	0.021	12	0.1	0.0	12.361	B
C-AB	7	2	679	0.011	7	0.0	0.0	10.271	B
C-A	80	20			80				
A-B	26	7			26				
A-C	360	90			360				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	26	6	752	0.034	26	0.0	0.0	5.308	A
B-A	10	2	563	0.017	10	0.0	0.0	11.918	B
C-AB	6	1	685	0.009	6	0.0	0.0	10.241	B
C-A	67	17			67				
A-B	22	5			22				
A-C	302	75			302				

2032 + Development, 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	Use circulating lanes	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	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road W		ONE HOUR	✓	287	100.000
East Riverside		ONE HOUR	✓	40	100.000
Robinson Road E		ONE HOUR	✓	653	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	23	264
	East Riverside	28	0	12
	Robinson Road E	616	37	0

Vehicle Mix

HV %s

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	58	80
	East Riverside	50	0	22
	Robinson Road E	33	22	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	6.25	0.0	A	11	17
B-A	0.07	12.19	0.1	B	26	39
C-AB	0.10	5.08	0.3	A	80	119
C-A					520	780
A-B					21	32
A-C					242	363

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	746	0.012	9	0.0	0.0	5.955	A
B-A	21	5	541	0.039	21	0.0	0.1	10.385	B
C-AB	54	13	959	0.056	53	0.0	0.1	5.052	A
C-A	438	109			438				
A-B	17	4			17				
A-C	199	50			199				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	734	0.015	11	0.0	0.0	6.076	A
B-A	25	6	513	0.049	25	0.1	0.1	11.075	B
C-AB	74	19	1009	0.073	74	0.1	0.2	4.911	A
C-A	513	128			513				
A-B	21	5			21				
A-C	237	59			237				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	716	0.018	13	0.0	0.0	6.251	A
B-A	31	8	474	0.065	31	0.1	0.1	12.181	B
C-AB	110	28	1079	0.102	110	0.2	0.3	4.768	A
C-A	609	152			609				
A-B	25	6			25				
A-C	291	73			291				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	3	716	0.018	13	0.0	0.0	6.252	A
B-A	31	8	474	0.065	31	0.1	0.1	12.188	B
C-AB	110	28	1080	0.102	110	0.3	0.3	4.785	A
C-A	609	152			609				
A-B	25	6			25				
A-C	291	73			291				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	733	0.015	11	0.0	0.0	6.080	A
B-A	25	6	512	0.049	25	0.1	0.1	11.087	B
C-AB	74	19	1009	0.074	75	0.3	0.2	4.953	A
C-A	513	128			513				
A-B	21	5			21				
A-C	237	59			237				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	746	0.012	9	0.0	0.0	5.961	A
B-A	21	5	541	0.039	21	0.1	0.1	10.400	B
C-AB	54	14	959	0.057	54	0.2	0.1	5.077	A
C-A	437	109			437				
A-B	17	4			17				
A-C	199	50			199				

2032 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.45	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.45	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road W		ONE HOUR	✓	624	100.000
East Riverside		ONE HOUR	✓	39	100.000
Robinson Road E		ONE HOUR	✓	390	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	29	595
	East Riverside	13	0	26
	Robinson Road E	383	7	0

Vehicle Mix

HV %s

		To		
		Robinson Road W	East Riverside	Robinson Road E
From	Robinson Road W	0	60	34
	East Riverside	83	0	0
	Robinson Road E	80	100	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.04	5.85	0.0	A	24	36
B-A	0.03	16.23	0.1	C	12	18
C-AB	0.02	8.76	0.0	A	12	17
C-A					346	519
A-B					27	40
A-C					546	819

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	706	0.028	19	0.0	0.0	5.246	A
B-A	10	2	498	0.020	10	0.0	0.0	13.495	B
C-AB	8	2	798	0.010	8	0.0	0.0	8.765	A
C-A	285	71			285				
A-B	22	5			22				
A-C	448	112			448				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	23	6	680	0.034	23	0.0	0.0	5.482	A
B-A	12	3	465	0.025	12	0.0	0.0	14.523	B
C-AB	11	3	817	0.013	11	0.0	0.0	8.551	A
C-A	340	85			340				
A-B	26	7			26				
A-C	535	134			535				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	29	7	644	0.044	29	0.0	0.0	5.846	A
B-A	14	4	420	0.034	14	0.0	0.1	16.231	C
C-AB	15	4	847	0.018	15	0.0	0.0	8.234	A
C-A	414	103			414				
A-B	32	8			32				
A-C	655	164			655				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	29	7	644	0.044	29	0.0	0.0	5.847	A
B-A	14	4	420	0.034	14	0.1	0.1	16.232	C
C-AB	15	4	847	0.018	15	0.0	0.0	8.208	A
C-A	414	103			414				
A-B	32	8			32				
A-C	655	164			655				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	23	6	680	0.034	23	0.0	0.0	5.484	A
B-A	12	3	465	0.025	12	0.1	0.0	14.525	B
C-AB	11	3	817	0.013	11	0.0	0.0	8.486	A
C-A	340	85			340				
A-B	26	7			26				
A-C	535	134			535				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	705	0.028	20	0.0	0.0	5.250	A
B-A	10	2	498	0.020	10	0.0	0.0	13.496	B
C-AB	8	2	798	0.010	8	0.0	0.0	8.732	A
C-A	285	71			285				
A-B	22	5			22				
A-C	448	112			448				

Appendix TN4 F

Robinson Road/ Gresley Way Priority Junction Assessment

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.4.1693
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Filename: Robinson Road-Gresley Way.j10
Path: P:\23000's\23325\Junction Assessment\2 Internal Junctions
Report generation date: 23/10/2023 14:34:10

Summary of junction performance

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-C	0.0	9.97	0.02	0.1	10.70	0.04
Stream B-A	0.1	13.18	0.04	0.1	10.35	0.06
Stream C-AB	0.0	6.36	0.01	0.0	6.75	0.02
	2025 Base					
Stream B-C	0.0	10.08	0.02	0.1	10.73	0.04
Stream B-A	0.1	13.27	0.05	0.1	10.47	0.07
Stream C-AB	0.0	6.37	0.01	0.0	6.69	0.02
	2025 + Development					
Stream B-C	0.0	10.29	0.02	0.3	9.93	0.17
Stream B-A	0.1	13.87	0.05	0.1	13.25	0.08
Stream C-AB	0.0	6.34	0.01	0.0	6.52	0.02
	2032 Base					
Stream B-C	0.0	10.14	0.02	0.1	9.01	0.04
Stream B-A	0.1	13.55	0.05	0.1	13.65	0.07
Stream C-AB	0.0	6.40	0.01	0.0	5.45	0.02
	2032 + Development					
Stream B-C	0.0	10.36	0.02	0.4	10.09	0.18
Stream B-A	0.1	14.18	0.05	0.1	13.48	0.09
Stream C-AB	0.0	6.36	0.01	0.0	6.43	0.02

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

File summary

File Description

Title	
Location	
Site number	
Date	18/05/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DTA\arcady
Description	

Units

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

Analysis Options

Vehicle length (m)	Calculate Q Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Analysis Set Details

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

2022 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.66	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.66	A

Arms

Arms

Arm	Name	Description	Arm type
A	Robinson Road S		Major
B	Gresley Way		Minor
C	Robinson Road N		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
Robinson Road N	8.26			88.6	✓	0.00

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)
Gresley Way	One lane plus flare	10.00	5.99	5.29	5.28	5.27	✓	3.00	214	108

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	660	0.110	0.278	0.175	0.397
B-C	654	0.089	0.225	-	-
C-B	625	0.218	0.218	-	-

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	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road S		ONE HOUR	✓	408	100.000
Gresley Way		ONE HOUR	✓	30	100.000
Robinson Road N		ONE HOUR	✓	145	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	39	369
	Gresley Way	20	0	10
	Robinson Road N	142	3	0

Vehicle Mix

HV %s

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	38	22
	Gresley Way	80	0	50
	Robinson Road N	75	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	9.97	0.0	A	9	14
B-A	0.04	13.18	0.1	B	18	28
C-AB	0.01	6.36	0.0	A	3	5
C-A					130	194
A-B					36	54
A-C					339	508

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	585	0.013	7	0.0	0.0	9.348	A
B-A	15	4	560	0.027	15	0.0	0.0	11.889	B
C-AB	3	0.68	632	0.004	3	0.0	0.0	6.168	A
C-A	106	27			106				
A-B	29	7			29				
A-C	278	69			278				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	571	0.016	9	0.0	0.0	9.602	A
B-A	18	4	540	0.033	18	0.0	0.1	12.402	B
C-AB	3	0.85	634	0.005	3	0.0	0.0	6.205	A
C-A	127	32			127				
A-B	35	9			35				
A-C	332	83			332				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	553	0.020	11	0.0	0.0	9.969	A
B-A	22	6	514	0.043	22	0.1	0.1	13.178	B
C-AB	4	1	638	0.007	4	0.0	0.0	6.296	A
C-A	155	39			155				
A-B	43	11			43				
A-C	406	102			406				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	553	0.020	11	0.0	0.0	9.970	A
B-A	22	6	514	0.043	22	0.1	0.1	13.180	B
C-AB	4	1	638	0.007	4	0.0	0.0	6.357	A
C-A	155	39			155				
A-B	43	11			43				
A-C	406	102			406				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	571	0.016	9	0.0	0.0	9.605	A
B-A	18	4	541	0.033	18	0.1	0.1	12.406	B
C-AB	3	0.85	634	0.005	3	0.0	0.0	6.326	A
C-A	127	32			127				
A-B	35	9			35				
A-C	332	83			332				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	585	0.013	8	0.0	0.0	9.355	A
B-A	15	4	560	0.027	15	0.1	0.1	11.897	B
C-AB	3	0.68	632	0.004	3	0.0	0.0	6.226	A
C-A	106	27			106				
A-B	29	7			29				
A-C	278	69			278				

2022 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.97	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.97	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road S		ONE HOUR	✓	149	100.000
Gresley Way		ONE HOUR	✓	50	100.000
Robinson Road N		ONE HOUR	✓	418	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	10	139
	Gresley Way	30	0	20
	Robinson Road N	412	6	0

Vehicle Mix

HV %s

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	80	65
	Gresley Way	40	0	80
	Robinson Road N	29	67	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.04	10.70	0.1	B	18	28
B-A	0.06	10.35	0.1	B	28	41
C-AB	0.02	6.75	0.0	A	10	15
C-A					373	560
A-B					9	14
A-C					128	191

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	643	0.023	15	0.0	0.0	10.318	B
B-A	23	6	558	0.040	22	0.0	0.1	9.397	A
C-AB	7	2	807	0.009	7	0.0	0.0	6.749	A
C-A	307	77			307				
A-B	8	2			8				
A-C	105	26			105				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	4	636	0.028	18	0.0	0.1	10.476	B
B-A	27	7	542	0.050	27	0.1	0.1	9.780	A
C-AB	10	2	844	0.011	10	0.0	0.0	6.420	A
C-A	366	92			366				
A-B	9	2			9				
A-C	125	31			125				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	628	0.035	22	0.1	0.1	10.700	B
B-A	33	8	520	0.064	33	0.1	0.1	10.352	B
C-AB	13	3	895	0.015	13	0.0	0.0	5.977	A
C-A	447	112			447				
A-B	11	3			11				
A-C	153	38			153				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	22	6	628	0.035	22	0.1	0.1	10.700	B
B-A	33	8	520	0.064	33	0.1	0.1	10.354	B
C-AB	13	3	895	0.015	13	0.0	0.0	5.935	A
C-A	447	112			447				
A-B	11	3			11				
A-C	153	38			153				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	18	4	636	0.028	18	0.1	0.1	10.479	B
B-A	27	7	542	0.050	27	0.1	0.1	9.786	A
C-AB	10	2	844	0.011	10	0.0	0.0	6.312	A
C-A	366	92			366				
A-B	9	2			9				
A-C	125	31			125				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	15	4	643	0.023	15	0.1	0.0	10.326	B
B-A	23	6	558	0.040	23	0.1	0.1	9.409	A
C-AB	7	2	807	0.009	7	0.0	0.0	6.690	A
C-A	307	77			307				
A-B	8	2			8				
A-C	105	26			105				

2025 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.67	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.67	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road S		ONE HOUR	✓	420	100.000
Gresley Way		ONE HOUR	✓	31	100.000
Robinson Road N		ONE HOUR	✓	149	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	40	380
	Gresley Way	21	0	10
	Robinson Road N	146	3	0

Vehicle Mix

HV %s

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	38	22
	Gresley Way	80	0	50
	Robinson Road N	75	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	10.08	0.0	B	9	14
B-A	0.05	13.27	0.1	B	19	29
C-AB	0.01	6.37	0.0	A	4	5
C-A					133	200
A-B					37	55
A-C					349	523

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	580	0.013	7	0.0	0.0	9.430	A
B-A	16	4	559	0.028	16	0.0	0.1	11.917	B
C-AB	3	0.68	632	0.004	3	0.0	0.0	6.179	A
C-A	109	27			109				
A-B	30	8			30				
A-C	286	72			286				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	566	0.016	9	0.0	0.0	9.694	A
B-A	19	5	539	0.035	19	0.1	0.1	12.449	B
C-AB	3	0.85	634	0.005	3	0.0	0.0	6.217	A
C-A	131	33			131				
A-B	36	9			36				
A-C	342	85			342				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	547	0.020	11	0.0	0.0	10.078	B
B-A	23	6	512	0.045	23	0.1	0.1	13.264	B
C-AB	4	1	638	0.007	4	0.0	0.0	6.310	A
C-A	160	40			160				
A-B	44	11			44				
A-C	418	105			418				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	547	0.020	11	0.0	0.0	10.079	B
B-A	23	6	512	0.045	23	0.1	0.1	13.265	B
C-AB	4	1	638	0.007	4	0.0	0.0	6.370	A
C-A	160	40			160				
A-B	44	11			44				
A-C	418	105			418				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	566	0.016	9	0.0	0.0	9.697	A
B-A	19	5	539	0.035	19	0.1	0.1	12.455	B
C-AB	3	0.85	634	0.005	3	0.0	0.0	6.339	A
C-A	131	33			131				
A-B	36	9			36				
A-C	342	85			342				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	580	0.013	8	0.0	0.0	9.437	A
B-A	16	4	559	0.028	16	0.1	0.1	11.923	B
C-AB	3	0.68	632	0.004	3	0.0	0.0	6.236	A
C-A	109	27			109				
A-B	30	8			30				
A-C	286	72			286				

2025 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.98	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road S		ONE HOUR	✓	154	100.000
Gresley Way		ONE HOUR	✓	52	100.000
Robinson Road N		ONE HOUR	✓	430	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	11	143
	Gresley Way	31	0	21
	Robinson Road N	424	6	0

Vehicle Mix

HV %s

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	80	65
	Gresley Way	40	0	80
	Robinson Road N	29	67	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.04	10.73	0.1	B	19	29
B-A	0.07	10.47	0.1	B	28	43
C-AB	0.02	6.69	0.0	A	10	15
C-A					384	576
A-B					10	15
A-C					131	197

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	643	0.025	16	0.0	0.0	10.329	B
B-A	23	6	555	0.042	23	0.0	0.1	9.469	A
C-AB	7	2	813	0.009	7	0.0	0.0	6.690	A
C-A	316	79			316				
A-B	8	2			8				
A-C	108	27			108				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	19	5	636	0.030	19	0.0	0.1	10.494	B
B-A	28	7	538	0.052	28	0.1	0.1	9.869	A
C-AB	10	2	850	0.012	10	0.0	0.0	6.357	A
C-A	377	94			377				
A-B	10	2			10				
A-C	129	32			129				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	23	6	627	0.037	23	0.1	0.1	10.727	B
B-A	34	9	515	0.066	34	0.1	0.1	10.471	B
C-AB	14	3	903	0.015	14	0.0	0.0	5.910	A
C-A	460	115			460				
A-B	12	3			12				
A-C	157	39			157				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	23	6	627	0.037	23	0.1	0.1	10.728	B
B-A	34	9	515	0.066	34	0.1	0.1	10.472	B
C-AB	14	3	903	0.015	14	0.0	0.0	5.866	A
C-A	460	115			460				
A-B	12	3			12				
A-C	157	39			157				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	19	5	636	0.030	19	0.1	0.1	10.497	B
B-A	28	7	538	0.052	28	0.1	0.1	9.876	A
C-AB	10	2	850	0.012	10	0.0	0.0	6.249	A
C-A	377	94			377				
A-B	10	2			10				
A-C	129	32			129				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	4	643	0.025	16	0.1	0.0	10.335	B
B-A	23	6	555	0.042	23	0.1	0.1	9.479	A
C-AB	7	2	813	0.009	7	0.0	0.0	6.633	A
C-A	316	79			316				
A-B	8	2			8				
A-C	108	27			108				

2025 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.61	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.61	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road S		ONE HOUR	✓	463	100.000
Gresley Way		ONE HOUR	✓	31	100.000
Robinson Road N		ONE HOUR	✓	191	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	40	423
	Gresley Way	21	0	10
	Robinson Road N	188	3	0

Vehicle Mix

HV %s

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	38	26
	Gresley Way	80	0	50
	Robinson Road N	76	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	10.29	0.0	B	9	14
B-A	0.05	13.87	0.1	B	19	29
C-AB	0.01	6.34	0.0	A	4	6
C-A					171	257
A-B					37	55
A-C					388	582

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	573	0.013	7	0.0	0.0	9.552	A
B-A	16	4	545	0.029	16	0.0	0.1	12.239	B
C-AB	3	0.72	647	0.004	3	0.0	0.0	6.166	A
C-A	141	35			141				
A-B	30	8			30				
A-C	318	80			318				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	557	0.016	9	0.0	0.0	9.849	A
B-A	19	5	522	0.036	19	0.1	0.1	12.880	B
C-AB	4	0.91	653	0.006	4	0.0	0.0	6.187	A
C-A	168	42			168				
A-B	36	9			36				
A-C	380	95			380				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	536	0.021	11	0.0	0.0	10.285	B
B-A	23	6	490	0.047	23	0.1	0.1	13.871	B
C-AB	5	1	662	0.007	5	0.0	0.0	6.264	A
C-A	205	51			205				
A-B	44	11			44				
A-C	466	116			466				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	536	0.021	11	0.0	0.0	10.286	B
B-A	23	6	490	0.047	23	0.1	0.1	13.871	B
C-AB	5	1	662	0.007	5	0.0	0.0	6.341	A
C-A	205	51			205				
A-B	44	11			44				
A-C	466	116			466				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	557	0.016	9	0.0	0.0	9.853	A
B-A	19	5	522	0.036	19	0.1	0.1	12.884	B
C-AB	4	0.91	653	0.006	4	0.0	0.0	6.339	A
C-A	168	42			168				
A-B	36	9			36				
A-C	380	95			380				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	572	0.013	8	0.0	0.0	9.562	A
B-A	16	4	545	0.029	16	0.1	0.1	12.253	B
C-AB	3	0.72	647	0.004	3	0.0	0.0	6.238	A
C-A	141	35			141				
A-B	30	8			30				
A-C	318	80			318				

2025 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.93	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.93	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road S		ONE HOUR	✓	196	100.000
Gresley Way		ONE HOUR	✓	143	100.000
Robinson Road N		ONE HOUR	✓	490	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	11	185
	Gresley Way	31	0	112
	Robinson Road N	484	6	0

Vehicle Mix

HV %s

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	80	70
	Gresley Way	40	0	64
	Robinson Road N	33	67	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.17	9.93	0.3	A	103	154
B-A	0.08	13.25	0.1	B	28	43
C-AB	0.02	6.52	0.0	A	11	17
C-A					438	657
A-B					10	15
A-C					170	255

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	84	21	742	0.114	83	0.0	0.2	8.958	A
B-A	23	6	455	0.051	23	0.0	0.1	11.672	B
C-AB	8	2	837	0.010	8	0.0	0.0	6.522	A
C-A	361	90			361				
A-B	8	2			8				
A-C	139	35			139				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	101	25	732	0.138	100	0.2	0.3	9.348	A
B-A	28	7	438	0.064	28	0.1	0.1	12.291	B
C-AB	11	3	880	0.012	11	0.0	0.0	6.173	A
C-A	430	107			430				
A-B	10	2			10				
A-C	166	42			166				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	123	31	718	0.172	123	0.3	0.3	9.916	A
B-A	34	9	415	0.082	34	0.1	0.1	13.240	B
C-AB	15	4	940	0.016	15	0.0	0.0	5.715	A
C-A	524	131			524				
A-B	12	3			12				
A-C	204	51			204				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	123	31	718	0.172	123	0.3	0.3	9.928	A
B-A	34	9	415	0.082	34	0.1	0.1	13.247	B
C-AB	15	4	940	0.016	15	0.0	0.0	5.676	A
C-A	524	131			524				
A-B	12	3			12				
A-C	204	51			204				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	101	25	732	0.138	101	0.3	0.3	9.365	A
B-A	28	7	438	0.064	28	0.1	0.1	12.297	B
C-AB	11	3	880	0.012	11	0.0	0.0	6.079	A
C-A	430	107			430				
A-B	10	2			10				
A-C	166	42			166				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	84	21	741	0.114	85	0.3	0.2	8.991	A
B-A	23	6	455	0.051	23	0.1	0.1	11.687	B
C-AB	8	2	837	0.010	8	0.0	0.0	6.471	A
C-A	361	90			361				
A-B	8	2			8				
A-C	139	35			139				

2032 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.69	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.69	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road S		ONE HOUR	✓	440	100.000
Gresley Way		ONE HOUR	✓	33	100.000
Robinson Road N		ONE HOUR	✓	156	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	42	398
	Gresley Way	22	0	11
	Robinson Road N	153	3	0

Vehicle Mix

HV %s

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	38	22
	Gresley Way	80	0	50
	Robinson Road N	75	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	10.14	0.0	B	10	15
B-A	0.05	13.55	0.1	B	20	30
C-AB	0.01	6.40	0.0	A	4	5
C-A					140	209
A-B					39	58
A-C					365	548

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	579	0.014	8	0.0	0.0	9.451	A
B-A	17	4	552	0.030	16	0.0	0.1	12.093	B
C-AB	3	0.69	633	0.004	3	0.0	0.0	6.197	A
C-A	115	29			115				
A-B	32	8			32				
A-C	300	75			300				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	565	0.018	10	0.0	0.0	9.732	A
B-A	20	5	531	0.037	20	0.1	0.1	12.668	B
C-AB	3	0.86	635	0.005	3	0.0	0.0	6.236	A
C-A	137	34			137				
A-B	38	9			38				
A-C	358	89			358				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	12	3	544	0.022	12	0.0	0.0	10.143	B
B-A	24	6	502	0.048	24	0.1	0.1	13.552	B
C-AB	4	1	639	0.007	4	0.0	0.0	6.332	A
C-A	167	42			167				
A-B	46	12			46				
A-C	438	110			438				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	12	3	544	0.022	12	0.0	0.0	10.144	B
B-A	24	6	502	0.048	24	0.1	0.1	13.553	B
C-AB	4	1	639	0.007	4	0.0	0.0	6.398	A
C-A	167	42			167				
A-B	46	12			46				
A-C	438	110			438				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	565	0.018	10	0.0	0.0	9.736	A
B-A	20	5	531	0.037	20	0.1	0.1	12.672	B
C-AB	3	0.86	635	0.005	3	0.0	0.0	6.367	A
C-A	137	34			137				
A-B	38	9			38				
A-C	358	89			358				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	579	0.014	8	0.0	0.0	9.460	A
B-A	17	4	552	0.030	17	0.1	0.1	12.103	B
C-AB	3	0.69	633	0.004	3	0.0	0.0	6.260	A
C-A	115	29			115				
A-B	32	8			32				
A-C	300	75			300				

2032 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.07	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.07	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road S		ONE HOUR	✓	160	100.000
Gresley Way		ONE HOUR	✓	55	100.000
Robinson Road N		ONE HOUR	✓	450	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	11	149
	Gresley Way	33	0	22
	Robinson Road N	444	6	0

Vehicle Mix

HV %s

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	38	22
	Gresley Way	80	0	50
	Robinson Road N	75	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.04	9.01	0.1	A	20	30
B-A	0.07	13.65	0.1	B	30	45
C-AB	0.02	5.45	0.0	A	11	16
C-A					402	603
A-B					10	15
A-C					137	205

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	17	4	640	0.026	16	0.0	0.0	8.654	A
B-A	25	6	552	0.045	25	0.0	0.1	12.271	B
C-AB	8	2	822	0.009	8	0.0	0.0	5.353	A
C-A	331	83			331				
A-B	8	2			8				
A-C	112	28			112				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	633	0.031	20	0.0	0.0	8.804	A
B-A	30	7	535	0.055	30	0.1	0.1	12.820	B
C-AB	10	3	861	0.012	10	0.0	0.0	5.209	A
C-A	394	99			394				
A-B	10	2			10				
A-C	134	33			134				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	24	6	623	0.039	24	0.0	0.1	9.011	A
B-A	36	9	511	0.071	36	0.1	0.1	13.648	B
C-AB	14	4	916	0.016	14	0.0	0.0	5.093	A
C-A	481	120			481				
A-B	12	3			12				
A-C	164	41			164				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	24	6	623	0.039	24	0.1	0.1	9.013	A
B-A	36	9	511	0.071	36	0.1	0.1	13.652	B
C-AB	14	4	916	0.016	14	0.0	0.0	5.179	A
C-A	481	120			481				
A-B	12	3			12				
A-C	164	41			164				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	5	633	0.031	20	0.1	0.0	8.810	A
B-A	30	7	535	0.055	30	0.1	0.1	12.825	B
C-AB	10	3	861	0.012	10	0.0	0.0	5.404	A
C-A	394	99			394				
A-B	10	2			10				
A-C	134	33			134				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	17	4	640	0.026	17	0.0	0.0	8.667	A
B-A	25	6	553	0.045	25	0.1	0.1	12.283	B
C-AB	8	2	822	0.009	8	0.0	0.0	5.453	A
C-A	331	83			331				
A-B	8	2			8				
A-C	112	28			112				

2032 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.63	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.63	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road S		ONE HOUR	✓	483	100.000
Gresley Way		ONE HOUR	✓	33	100.000
Robinson Road N		ONE HOUR	✓	198	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	42	441
	Gresley Way	22	0	11
	Robinson Road N	195	3	0

Vehicle Mix

HV %s

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	38	26
	Gresley Way	80	0	50
	Robinson Road N	76	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	10.36	0.0	B	10	15
B-A	0.05	14.18	0.1	B	20	30
C-AB	0.01	6.36	0.0	A	4	6
C-A					178	267
A-B					39	58
A-C					405	607

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	572	0.014	8	0.0	0.0	9.574	A
B-A	17	4	537	0.031	16	0.0	0.1	12.430	B
C-AB	3	0.73	648	0.005	3	0.0	0.0	6.183	A
C-A	146	37			146				
A-B	32	8			32				
A-C	332	83			332				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	556	0.018	10	0.0	0.0	9.889	A
B-A	20	5	514	0.038	20	0.1	0.1	13.112	B
C-AB	4	0.92	654	0.006	4	0.0	0.0	6.205	A
C-A	174	44			174				
A-B	38	9			38				
A-C	396	99			396				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	12	3	534	0.023	12	0.0	0.0	10.353	B
B-A	24	6	481	0.050	24	0.1	0.1	14.179	B
C-AB	5	1	663	0.007	5	0.0	0.0	6.285	A
C-A	213	53			213				
A-B	46	12			46				
A-C	486	121			486				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	12	3	534	0.023	12	0.0	0.0	10.355	B
B-A	24	6	481	0.050	24	0.1	0.1	14.183	B
C-AB	5	1	663	0.007	5	0.0	0.0	6.362	A
C-A	213	53			213				
A-B	46	12			46				
A-C	486	121			486				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	556	0.018	10	0.0	0.0	9.893	A
B-A	20	5	514	0.038	20	0.1	0.1	13.119	B
C-AB	4	0.92	654	0.006	4	0.0	0.0	6.363	A
C-A	174	44			174				
A-B	38	9			38				
A-C	396	99			396				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	572	0.014	8	0.0	0.0	9.583	A
B-A	17	4	538	0.031	17	0.1	0.1	12.438	B
C-AB	3	0.73	648	0.005	3	0.0	0.0	6.261	A
C-A	146	37			146				
A-B	32	8			32				
A-C	332	83			332				

2032 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.98	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.98	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road S		ONE HOUR	✓	203	100.000
Gresley Way		ONE HOUR	✓	150	100.000
Robinson Road N		ONE HOUR	✓	510	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	11	192
	Gresley Way	33	0	117
	Robinson Road N	504	6	0

Vehicle Mix

HV %s

		To		
		Robinson Road S	Gresley Way	Robinson Road N
From	Robinson Road S	0	80	70
	Gresley Way	40	0	64
	Robinson Road N	33	67	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.18	10.09	0.4	B	107	161
B-A	0.09	13.48	0.1	B	30	45
C-AB	0.02	6.43	0.0	A	12	18
C-A					456	684
A-B					10	15
A-C					176	264

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	88	22	739	0.119	87	0.0	0.2	9.049	A
B-A	25	6	452	0.055	25	0.0	0.1	11.784	B
C-AB	8	2	847	0.010	8	0.0	0.0	6.433	A
C-A	376	94			376				
A-B	8	2			8				
A-C	145	36			145				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	105	26	728	0.144	105	0.2	0.3	9.468	A
B-A	30	7	435	0.068	30	0.1	0.1	12.443	B
C-AB	11	3	891	0.012	11	0.0	0.0	6.078	A
C-A	447	112			447				
A-B	10	2			10				
A-C	173	43			173				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	129	32	714	0.180	128	0.3	0.4	10.080	B
B-A	36	9	410	0.089	36	0.1	0.1	13.471	B
C-AB	16	4	954	0.017	16	0.0	0.0	5.616	A
C-A	546	136			546				
A-B	12	3			12				
A-C	211	53			211				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	129	32	714	0.180	129	0.4	0.4	10.091	B
B-A	36	9	410	0.089	36	0.1	0.1	13.478	B
C-AB	16	4	954	0.017	16	0.0	0.0	5.578	A
C-A	546	136			546				
A-B	12	3			12				
A-C	211	53			211				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	105	26	728	0.144	105	0.4	0.3	9.488	A
B-A	30	7	435	0.068	30	0.1	0.1	12.457	B
C-AB	11	3	891	0.012	11	0.0	0.0	5.985	A
C-A	447	112			447				
A-B	10	2			10				
A-C	173	43			173				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	88	22	738	0.119	88	0.3	0.2	9.086	A
B-A	25	6	452	0.055	25	0.1	0.1	11.801	B
C-AB	8	2	847	0.010	8	0.0	0.0	6.381	A
C-A	376	94			376				
A-B	8	2			8				
A-C	145	36			145				

Appendix TN4 G

Robinson Road/ IOT Access Road Priority Junction Assessment

Junctions 10

PICADY 10 - Priority Intersection Module

Version: 10.0.4.1693
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Filename: Robinson Road-IOT Access Road.j10
Path: P:\23000's\23325\Junction Assessment\2 Internal Junctions
Report generation date: 23/10/2023 14:35:34

Summary of junction performance

	AM			PM		
	Q (PCU)	Delay (s)	RFC	Q (PCU)	Delay (s)	RFC
	2022 Base					
Stream B-C	0.0	6.68	0.01	0.1	5.38	0.08
Stream B-A	0.0	15.14	0.00	0.0	7.80	0.00
Stream C-AB	0.3	5.35	0.14	0.0	6.87	0.03
	2025 Base					
Stream B-C	0.0	6.69	0.01	0.1	5.41	0.08
Stream B-A	0.0	15.23	0.00	0.0	7.86	0.00
Stream C-AB	0.4	5.34	0.15	0.0	6.90	0.03
	2025 + Development					
Stream B-C	0.0	7.03	0.01	0.1	5.86	0.09
Stream B-A	0.0	17.59	0.01	0.0	9.53	0.01
Stream C-AB	0.6	5.25	0.19	0.1	6.50	0.04
	2032 Base					
Stream B-C	0.0	6.69	0.01	0.1	5.48	0.09
Stream B-A	0.0	15.47	0.00	0.0	7.94	0.00
Stream C-AB	0.4	5.32	0.16	0.0	6.93	0.03
	2032 + Development					
Stream B-C	0.0	7.03	0.02	0.1	5.94	0.09
Stream B-A	0.0	17.89	0.01	0.0	9.65	0.01
Stream C-AB	0.7	5.23	0.21	0.1	6.52	0.04

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

File summary

File Description

Title	
Location	
Site number	
Date	18/05/2022
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DTA\arcady
Description	

Units

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

Analysis Options

Vehicle length (m)	Calculate Q Percentiles	Calculate detailed queueing delay	Show lane queues in feet / metres	Show all PICADY stream intercepts	Calculate residual capacity	RFC Threshold	Av. Delay threshold (s)	Q threshold (PCU)	Use iterations with HCM roundabouts	Max number of iterations for roundabouts
5.75						0.85	36.00	20.00		500

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Analysis Set Details

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

2022 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.13	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.13	A

Arms

Arms

Arm	Name	Description	Arm type
A	Robinson Road N		Major
B	IOT Access Road		Minor
C	Robinson Road S		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right-turn storage	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
Robinson Road S	11.65			98.6	✓	0.00

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)
IOT Access Road	One lane plus flare	10.00	7.04	5.75	5.74	5.27	✓	3.00	250	160

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	580	0.080	0.201	0.127	0.288
B-C	855	0.099	0.250	-	-
C-B	631	0.184	0.184	-	-

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	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2022 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	127	100.000
IOT Access Road		ONE HOUR	✓	12	100.000
Robinson Road S		ONE HOUR	✓	455	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	3	124
	IOT Access Road	2	0	10
	Robinson Road S	395	60	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	50	66
	IOT Access Road	100	0	50
	Robinson Road S	19	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	6.68	0.0	A	9	14
B-A	0.00	15.14	0.0	C	2	3
C-AB	0.14	5.35	0.3	A	98	147
C-A					319	479
A-B					3	4
A-C					114	171

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	831	0.009	7	0.0	0.0	6.558	A
B-A	2	0.38	510	0.003	1	0.0	0.0	14.155	B
C-AB	71	18	809	0.088	71	0.0	0.2	5.314	A
C-A	271	68			271				
A-B	2	0.56			2				
A-C	93	23			93				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	826	0.011	9	0.0	0.0	6.609	A
B-A	2	0.45	497	0.004	2	0.0	0.0	14.549	B
C-AB	93	23	845	0.111	93	0.2	0.2	5.246	A
C-A	316	79			316				
A-B	3	0.67			3				
A-C	111	28			111				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	819	0.013	11	0.0	0.0	6.679	A
B-A	2	0.55	478	0.005	2	0.0	0.0	15.134	C
C-AB	129	32	894	0.144	129	0.2	0.3	5.196	A
C-A	372	93			372				
A-B	3	0.83			3				
A-C	137	34			137				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	819	0.013	11	0.0	0.0	6.679	A
B-A	2	0.55	478	0.005	2	0.0	0.0	15.135	C
C-AB	129	32	894	0.145	129	0.3	0.3	5.224	A
C-A	372	93			372				
A-B	3	0.83			3				
A-C	137	34			137				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	826	0.011	9	0.0	0.0	6.613	A
B-A	2	0.45	497	0.004	2	0.0	0.0	14.550	B
C-AB	94	23	845	0.111	94	0.3	0.2	5.302	A
C-A	315	79			315				
A-B	3	0.67			3				
A-C	111	28			111				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	830	0.009	8	0.0	0.0	6.563	A
B-A	2	0.38	510	0.003	2	0.0	0.0	14.153	B
C-AB	72	18	810	0.089	72	0.2	0.2	5.354	A
C-A	271	68			271				
A-B	2	0.56			2				
A-C	93	23			93				

2022 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.73	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.73	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2022 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	404	100.000
IOT Access Road		ONE HOUR	✓	57	100.000
Robinson Road S		ONE HOUR	✓	100	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	3	401
	IOT Access Road	2	0	55
	Robinson Road S	88	12	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	50	22
	IOT Access Road	0	0	4
	Robinson Road S	58	9	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.08	5.38	0.1	A	50	76
B-A	0.00	7.80	0.0	A	2	3
C-AB	0.03	6.87	0.0	A	13	19
C-A					79	119
A-B					3	4
A-C					368	552

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	792	0.052	41	0.0	0.1	4.982	A
B-A	2	0.38	496	0.003	1	0.0	0.0	7.278	A
C-AB	10	3	620	0.016	10	0.0	0.0	6.653	A
C-A	65	16			65				
A-B	2	0.56			2				
A-C	302	75			302				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	49	12	777	0.064	49	0.1	0.1	5.142	A
B-A	2	0.45	482	0.004	2	0.0	0.0	7.489	A
C-AB	12	3	618	0.020	12	0.0	0.0	6.721	A
C-A	78	19			78				
A-B	3	0.67			3				
A-C	360	90			360				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	61	15	757	0.080	60	0.1	0.1	5.379	A
B-A	2	0.55	464	0.005	2	0.0	0.0	7.803	A
C-AB	16	4	616	0.025	16	0.0	0.0	6.839	A
C-A	94	24			94				
A-B	3	0.83			3				
A-C	442	110			442				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	61	15	757	0.080	61	0.1	0.1	5.379	A
B-A	2	0.55	464	0.005	2	0.0	0.0	7.803	A
C-AB	16	4	616	0.025	16	0.0	0.0	6.872	A
C-A	94	24			94				
A-B	3	0.83			3				
A-C	442	110			442				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	49	12	777	0.064	50	0.1	0.1	5.144	A
B-A	2	0.45	482	0.004	2	0.0	0.0	7.489	A
C-AB	12	3	618	0.020	12	0.0	0.0	6.784	A
C-A	78	19			78				
A-B	3	0.67			3				
A-C	360	90			360				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	41	10	792	0.052	41	0.1	0.1	4.985	A
B-A	2	0.38	496	0.003	2	0.0	0.0	7.281	A
C-AB	10	3	620	0.016	10	0.0	0.0	6.681	A
C-A	65	16			65				
A-B	2	0.56			2				
A-C	302	75			302				

2025 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.13	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.13	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2025 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	131	100.000
IOT Access Road		ONE HOUR	✓	12	100.000
Robinson Road S		ONE HOUR	✓	468	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	3	128
	IOT Access Road	2	0	10
	Robinson Road S	407	61	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	50	66
	IOT Access Road	100	0	50
	Robinson Road S	19	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	6.69	0.0	A	9	14
B-A	0.00	15.23	0.0	C	2	3
C-AB	0.15	5.34	0.4	A	101	152
C-A					328	492
A-B					3	4
A-C					117	176

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	830	0.009	7	0.0	0.0	6.564	A
B-A	2	0.38	508	0.003	1	0.0	0.0	14.209	B
C-AB	74	18	815	0.090	73	0.0	0.2	5.296	A
C-A	279	70			279				
A-B	2	0.56			2				
A-C	96	24			96				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	825	0.011	9	0.0	0.0	6.616	A
B-A	2	0.45	494	0.004	2	0.0	0.0	14.618	B
C-AB	97	24	852	0.113	96	0.2	0.2	5.226	A
C-A	324	81			324				
A-B	3	0.67			3				
A-C	115	29			115				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	818	0.013	11	0.0	0.0	6.688	A
B-A	2	0.55	475	0.005	2	0.0	0.0	15.227	C
C-AB	134	34	902	0.149	134	0.2	0.3	5.178	A
C-A	381	95			381				
A-B	3	0.83			3				
A-C	141	35			141				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	818	0.013	11	0.0	0.0	6.689	A
B-A	2	0.55	475	0.005	2	0.0	0.0	15.227	C
C-AB	134	34	903	0.149	134	0.3	0.4	5.207	A
C-A	381	95			381				
A-B	3	0.83			3				
A-C	141	35			141				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	825	0.011	9	0.0	0.0	6.618	A
B-A	2	0.45	494	0.004	2	0.0	0.0	14.619	B
C-AB	97	24	852	0.114	97	0.4	0.3	5.288	A
C-A	324	81			324				
A-B	3	0.67			3				
A-C	115	29			115				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	830	0.009	8	0.0	0.0	6.569	A
B-A	2	0.38	508	0.003	2	0.0	0.0	14.211	B
C-AB	74	18	815	0.091	74	0.3	0.2	5.337	A
C-A	278	70			278				
A-B	2	0.56			2				
A-C	96	24			96				

2025 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.73	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.73	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2025 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	416	100.000
IOT Access Road		ONE HOUR	✓	58	100.000
Robinson Road S		ONE HOUR	✓	103	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	3	413
	IOT Access Road	2	0	56
	Robinson Road S	90	13	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	50	22
	IOT Access Road	0	0	4
	Robinson Road S	58	9	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.08	5.41	0.1	A	51	77
B-A	0.00	7.86	0.0	A	2	3
C-AB	0.03	6.90	0.0	A	14	21
C-A					81	121
A-B					3	4
A-C					379	568

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	11	790	0.053	42	0.0	0.1	5.003	A
B-A	2	0.38	494	0.003	1	0.0	0.0	7.310	A
C-AB	11	3	619	0.018	11	0.0	0.0	6.674	A
C-A	67	17			67				
A-B	2	0.56			2				
A-C	311	78			311				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	50	13	775	0.065	50	0.1	0.1	5.168	A
B-A	2	0.45	480	0.004	2	0.0	0.0	7.530	A
C-AB	13	3	618	0.022	13	0.0	0.0	6.747	A
C-A	79	20			79				
A-B	3	0.67			3				
A-C	371	93			371				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	15	753	0.082	62	0.1	0.1	5.413	A
B-A	2	0.55	460	0.005	2	0.0	0.0	7.857	A
C-AB	17	4	616	0.028	17	0.0	0.0	6.871	A
C-A	96	24			96				
A-B	3	0.83			3				
A-C	455	114			455				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	15	753	0.082	62	0.1	0.1	5.413	A
B-A	2	0.55	460	0.005	2	0.0	0.0	7.857	A
C-AB	17	4	616	0.028	17	0.0	0.0	6.903	A
C-A	96	24			96				
A-B	3	0.83			3				
A-C	455	114			455				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	50	13	775	0.065	50	0.1	0.1	5.172	A
B-A	2	0.45	480	0.004	2	0.0	0.0	7.533	A
C-AB	13	3	618	0.022	14	0.0	0.0	6.812	A
C-A	79	20			79				
A-B	3	0.67			3				
A-C	371	93			371				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	11	790	0.053	42	0.1	0.1	5.005	A
B-A	2	0.38	494	0.003	2	0.0	0.0	7.310	A
C-AB	11	3	619	0.018	11	0.0	0.0	6.703	A
C-A	67	17			67				
A-B	2	0.56			2				
A-C	311	78			311				

2025 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.95	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.95	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2025 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	274	100.000
IOT Access Road		ONE HOUR	✓	12	100.000
Robinson Road S		ONE HOUR	✓	694	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	3	271
	IOT Access Road	2	0	10
	Robinson Road S	633	61	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	50	75
	IOT Access Road	100	0	50
	Robinson Road S	33	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	7.03	0.0	A	9	14
B-A	0.01	17.59	0.0	C	2	3
C-AB	0.19	5.25	0.6	A	144	216
C-A					493	739
A-B					3	4
A-C					249	373

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	803	0.009	7	0.0	0.0	6.786	A
B-A	2	0.38	465	0.003	1	0.0	0.0	15.534	C
C-AB	96	24	913	0.105	95	0.0	0.3	5.168	A
C-A	426	107			426				
A-B	2	0.56			2				
A-C	204	51			204				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	793	0.011	9	0.0	0.0	6.888	A
B-A	2	0.45	443	0.004	2	0.0	0.0	16.333	C
C-AB	134	33	970	0.138	133	0.3	0.4	5.098	A
C-A	490	123			490				
A-B	3	0.67			3				
A-C	244	61			244				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	779	0.014	11	0.0	0.0	7.032	A
B-A	2	0.55	412	0.005	2	0.0	0.0	17.581	C
C-AB	201	50	1050	0.192	200	0.4	0.6	5.117	A
C-A	563	141			563				
A-B	3	0.83			3				
A-C	298	75			298				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	3	779	0.014	11	0.0	0.0	7.033	A
B-A	2	0.55	412	0.005	2	0.0	0.0	17.585	C
C-AB	202	50	1051	0.192	202	0.6	0.6	5.176	A
C-A	562	141			562				
A-B	3	0.83			3				
A-C	298	75			298				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	2	793	0.011	9	0.0	0.0	6.893	A
B-A	2	0.45	443	0.004	2	0.0	0.0	16.337	C
C-AB	134	34	971	0.138	135	0.6	0.4	5.227	A
C-A	490	122			490				
A-B	3	0.67			3				
A-C	244	61			244				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	803	0.009	8	0.0	0.0	6.792	A
B-A	2	0.38	465	0.003	2	0.0	0.0	15.538	C
C-AB	97	24	913	0.106	98	0.4	0.3	5.250	A
C-A	426	106			426				
A-B	2	0.56			2				
A-C	204	51			204				

2025 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.48	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.48	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2025 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	603	100.000
IOT Access Road		ONE HOUR	✓	58	100.000
Robinson Road S		ONE HOUR	✓	396	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	3	600
	IOT Access Road	2	0	56
	Robinson Road S	383	13	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	50	32
	IOT Access Road	0	0	4
	Robinson Road S	82	9	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.09	5.86	0.1	A	51	77
B-A	0.01	9.53	0.0	A	2	3
C-AB	0.04	6.50	0.1	A	22	34
C-A					341	512
A-B					3	4
A-C					551	826

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	11	754	0.056	42	0.0	0.1	5.254	A
B-A	2	0.38	439	0.003	1	0.0	0.0	8.229	A
C-AB	16	4	748	0.021	16	0.0	0.0	6.339	A
C-A	282	71			282				
A-B	2	0.56			2				
A-C	452	113			452				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	50	13	732	0.069	50	0.1	0.1	5.493	A
B-A	2	0.45	414	0.004	2	0.0	0.0	8.729	A
C-AB	21	5	774	0.027	21	0.0	0.0	6.267	A
C-A	335	84			335				
A-B	3	0.67			3				
A-C	539	135			539				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	15	701	0.088	62	0.1	0.1	5.858	A
B-A	2	0.55	380	0.006	2	0.0	0.0	9.529	A
C-AB	30	7	811	0.037	30	0.0	0.1	6.248	A
C-A	406	102			406				
A-B	3	0.83			3				
A-C	661	165			661				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	62	15	701	0.088	62	0.1	0.1	5.858	A
B-A	2	0.55	380	0.006	2	0.0	0.0	9.530	A
C-AB	30	7	811	0.037	30	0.1	0.1	6.352	A
C-A	406	102			406				
A-B	3	0.83			3				
A-C	661	165			661				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	50	13	732	0.069	50	0.1	0.1	5.495	A
B-A	2	0.45	414	0.004	2	0.0	0.0	8.730	A
C-AB	21	5	774	0.027	21	0.1	0.0	6.497	A
C-A	335	84			335				
A-B	3	0.67			3				
A-C	539	135			539				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	42	11	754	0.056	42	0.1	0.1	5.257	A
B-A	2	0.38	439	0.003	2	0.0	0.0	8.232	A
C-AB	16	4	748	0.021	16	0.0	0.0	6.457	A
C-A	282	71			282				
A-B	2	0.56			2				
A-C	452	113			452				

2032 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.15	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.15	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2032 Base	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	138	100.000
IOT Access Road		ONE HOUR	✓	13	100.000
Robinson Road S		ONE HOUR	✓	490	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	4	134
	IOT Access Road	2	0	11
	Robinson Road S	426	64	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	50	66
	IOT Access Road	100	0	50
	Robinson Road S	19	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.01	6.69	0.0	A	10	15
B-A	0.00	15.47	0.0	C	2	3
C-AB	0.16	5.32	0.4	A	109	164
C-A					340	510
A-B					4	6
A-C					123	184

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	832	0.010	8	0.0	0.0	6.555	A
B-A	2	0.38	502	0.003	1	0.0	0.0	14.376	B
C-AB	79	20	824	0.096	78	0.0	0.2	5.280	A
C-A	290	72			290				
A-B	3	0.75			3				
A-C	101	25			101				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	827	0.012	10	0.0	0.0	6.611	A
B-A	2	0.45	488	0.004	2	0.0	0.0	14.813	B
C-AB	104	26	862	0.121	104	0.2	0.3	5.216	A
C-A	337	84			337				
A-B	4	0.90			4				
A-C	120	30			120				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	12	3	819	0.015	12	0.0	0.0	6.687	A
B-A	2	0.55	468	0.005	2	0.0	0.0	15.466	C
C-AB	145	36	915	0.159	145	0.3	0.4	5.180	A
C-A	394	99			394				
A-B	4	1			4				
A-C	148	37			148				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	12	3	819	0.015	12	0.0	0.0	6.688	A
B-A	2	0.55	468	0.005	2	0.0	0.0	15.467	C
C-AB	145	36	915	0.159	145	0.4	0.4	5.208	A
C-A	394	99			394				
A-B	4	1			4				
A-C	148	37			148				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	826	0.012	10	0.0	0.0	6.615	A
B-A	2	0.45	488	0.004	2	0.0	0.0	14.817	B
C-AB	104	26	862	0.121	105	0.4	0.3	5.279	A
C-A	336	84			336				
A-B	4	0.90			4				
A-C	120	30			120				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	832	0.010	8	0.0	0.0	6.561	A
B-A	2	0.38	502	0.003	2	0.0	0.0	14.378	B
C-AB	79	20	824	0.096	80	0.3	0.2	5.322	A
C-A	290	72			290				
A-B	3	0.75			3				
A-C	101	25			101				

2032 Base, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.74	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.74	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2032 Base	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	436	100.000
IOT Access Road		ONE HOUR	✓	61	100.000
Robinson Road S		ONE HOUR	✓	107	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	4	432
	IOT Access Road	2	0	59
	Robinson Road S	94	13	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	50	22
	IOT Access Road	0	0	4
	Robinson Road S	58	9	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.09	5.48	0.1	A	54	81
B-A	0.00	7.94	0.0	A	2	3
C-AB	0.03	6.93	0.0	A	14	21
C-A					84	126
A-B					4	6
A-C					396	595

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	44	11	786	0.056	44	0.0	0.1	5.043	A
B-A	2	0.38	491	0.003	1	0.0	0.0	7.358	A
C-AB	11	3	619	0.018	11	0.0	0.0	6.692	A
C-A	70	17			70				
A-B	3	0.75			3				
A-C	325	81			325				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	53	13	770	0.069	53	0.1	0.1	5.220	A
B-A	2	0.45	476	0.004	2	0.0	0.0	7.591	A
C-AB	14	3	617	0.022	14	0.0	0.0	6.767	A
C-A	83	21			83				
A-B	4	0.90			4				
A-C	388	97			388				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	65	16	748	0.087	65	0.1	0.1	5.483	A
B-A	2	0.55	456	0.005	2	0.0	0.0	7.939	A
C-AB	17	4	615	0.028	17	0.0	0.0	6.897	A
C-A	101	25			101				
A-B	4	1			4				
A-C	476	119			476				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	65	16	748	0.087	65	0.1	0.1	5.483	A
B-A	2	0.55	456	0.005	2	0.0	0.0	7.939	A
C-AB	17	4	615	0.028	17	0.0	0.0	6.930	A
C-A	101	25			101				
A-B	4	1			4				
A-C	476	119			476				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	53	13	770	0.069	53	0.1	0.1	5.221	A
B-A	2	0.45	476	0.004	2	0.0	0.0	7.592	A
C-AB	14	3	617	0.022	14	0.0	0.0	6.836	A
C-A	83	21			83				
A-B	4	0.90			4				
A-C	388	97			388				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	44	11	786	0.056	44	0.1	0.1	5.048	A
B-A	2	0.38	491	0.003	2	0.0	0.0	7.359	A
C-AB	11	3	619	0.018	11	0.0	0.0	6.726	A
C-A	69	17			69				
A-B	3	0.75			3				
A-C	325	81			325				

2032 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.99	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.99	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2032 + Development	AM	ONE HOUR	06:45	08:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	281	100.000
IOT Access Road		ONE HOUR	✓	13	100.000
Robinson Road S		ONE HOUR	✓	715	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	4	277
	IOT Access Road	2	0	11
	Robinson Road S	651	64	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	50	74
	IOT Access Road	100	0	50
	Robinson Road S	32	4	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.02	7.03	0.0	A	10	15
B-A	0.01	17.89	0.0	C	2	3
C-AB	0.21	5.23	0.7	A	155	233
C-A					501	751
A-B					4	6
A-C					254	381

Main Results for each time segment

06:45 - 07:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	805	0.010	8	0.0	0.0	6.778	A
B-A	2	0.38	459	0.003	1	0.0	0.0	15.722	C
C-AB	103	26	921	0.112	102	0.0	0.3	5.153	A
C-A	435	109			435				
A-B	3	0.75			3				
A-C	209	52			209				

07:00 - 07:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	794	0.012	10	0.0	0.0	6.883	A
B-A	2	0.45	436	0.004	2	0.0	0.0	16.562	C
C-AB	144	36	980	0.147	143	0.3	0.4	5.092	A
C-A	499	125			499				
A-B	4	0.90			4				
A-C	249	62			249				

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	12	3	780	0.016	12	0.0	0.0	7.032	A
B-A	2	0.55	405	0.005	2	0.0	0.0	17.881	C
C-AB	218	55	1063	0.205	217	0.4	0.7	5.134	A
C-A	569	142			569				
A-B	4	1			4				
A-C	305	76			305				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	12	3	780	0.016	12	0.0	0.0	7.033	A
B-A	2	0.55	405	0.005	2	0.0	0.0	17.886	C
C-AB	219	55	1063	0.206	219	0.7	0.7	5.193	A
C-A	568	142			568				
A-B	4	1			4				
A-C	305	76			305				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	10	2	794	0.012	10	0.0	0.0	6.888	A
B-A	2	0.45	436	0.004	2	0.0	0.0	16.570	C
C-AB	144	36	981	0.147	145	0.7	0.5	5.221	A
C-A	498	125			498				
A-B	4	0.90			4				
A-C	249	62			249				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	2	804	0.010	8	0.0	0.0	6.781	A
B-A	2	0.38	459	0.003	2	0.0	0.0	15.728	C
C-AB	104	26	922	0.113	104	0.5	0.3	5.233	A
C-A	434	109			434				
A-B	3	0.75			3				
A-C	209	52			209				

2032 + Development, 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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		0.49	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	0.49	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2032 + Development	PM	ONE HOUR	15:45	17:15	15	✓

Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
✓	✓	HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Av. Demand (PCU/hr)	Scaling Factor (%)
Robinson Road N		ONE HOUR	✓	623	100.000
IOT Access Road		ONE HOUR	✓	61	100.000
Robinson Road S		ONE HOUR	✓	400	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	3	620
	IOT Access Road	2	0	59
	Robinson Road S	387	13	0

Vehicle Mix

HV %s

		To		
		Robinson Road N	IOT Access Road	Robinson Road S
From	Robinson Road N	0	50	32
	IOT Access Road	0	0	4
	Robinson Road S	82	9	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Q (PCU)	Max LOS	Av. Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.09	5.94	0.1	A	54	81
B-A	0.01	9.65	0.0	A	2	3
C-AB	0.04	6.52	0.1	A	23	34
C-A					344	517
A-B					3	4
A-C					569	853

Main Results for each time segment

15:45 - 16:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	44	11	750	0.059	44	0.0	0.1	5.300	A
B-A	2	0.38	436	0.003	1	0.0	0.0	8.293	A
C-AB	16	4	748	0.021	16	0.0	0.0	6.355	A
C-A	285	71			285				
A-B	2	0.56			2				
A-C	467	117			467				

16:00 - 16:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	53	13	727	0.073	53	0.1	0.1	5.552	A
B-A	2	0.45	410	0.004	2	0.0	0.0	8.815	A
C-AB	21	5	774	0.028	21	0.0	0.0	6.283	A
C-A	338	85			338				
A-B	3	0.67			3				
A-C	557	139			557				

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	65	16	695	0.093	65	0.1	0.1	5.941	A
B-A	2	0.55	375	0.006	2	0.0	0.0	9.654	A
C-AB	30	8	811	0.037	30	0.0	0.1	6.266	A
C-A	410	103			410				
A-B	3	0.83			3				
A-C	683	171			683				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	65	16	695	0.093	65	0.1	0.1	5.941	A
B-A	2	0.55	375	0.006	2	0.0	0.0	9.655	A
C-AB	30	8	811	0.037	30	0.1	0.1	6.372	A
C-A	410	103			410				
A-B	3	0.83			3				
A-C	683	171			683				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	53	13	727	0.073	53	0.1	0.1	5.554	A
B-A	2	0.45	410	0.004	2	0.0	0.0	8.815	A
C-AB	21	5	774	0.028	21	0.1	0.0	6.517	A
C-A	338	85			338				
A-B	3	0.67			3				
A-C	557	139			557				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	44	11	750	0.059	44	0.1	0.1	5.303	A
B-A	2	0.38	436	0.003	2	0.0	0.0	8.294	A
C-AB	16	4	748	0.022	16	0.0	0.0	6.472	A
C-A	285	71			285				
A-B	2	0.56			2				
A-C	467	117			467				