

Appendix M

TRICS Data – Privately Owned Houses

Calculation Reference: AUDIT-349901-210324-0301

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED
TOTAL VEHICLES

Selected regions and areas:

02	SOUTH EAST	
	ES EAST SUSSEX	1 days
	HF HERTFORDSHIRE	1 days
	IW ISLE OF WIGHT	1 days
	KC KENT	1 days
03	SOUTH WEST	
	SM SOMERSET	1 days
04	EAST ANGLIA	
	NF NORFOLK	5 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NY NORTH YORKSHIRE	1 days
08	NORTH WEST	
	CH CHESHIRE	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Primary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: No of Dwellings
 Actual Range: 17 to 297 (units:)
 Range Selected by User: 20 to 160 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/12 to 08/10/19

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday	1 days
Tuesday	3 days
Wednesday	4 days
Thursday	3 days
Friday	2 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count	10 days
Directional ATC Count	3 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Edge of Town	12
Free Standing (PPS6 Out of Town)	1

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Residential Zone	11
Out of Town	2

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories

Secondary Filtering selection:

Use Class:

C3 13 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

All Surveys Included

Population within 1 mile:

1,000 or Less	1 days
1,001 to 5,000	5 days
5,001 to 10,000	5 days
10,001 to 15,000	1 days
20,001 to 25,000	1 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

5,001 to 25,000	4 days
25,001 to 50,000	5 days
50,001 to 75,000	4 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

1.1 to 1.5	12 days
1.6 to 2.0	1 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

Yes	6 days
No	7 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present	13 days
-----------------	---------

This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	CH-03-A-10 MEADOW DRIVE NORTHWICH BARNTON Edge of Town Residential Zone Total No of Dwellings: 40 Survey date: TUESDAY 04/06/19	SEMI-DETACHED & TERRACED	CHESHIRE	Survey Type: MANUAL
2	ES-03-A-04 NEW LYDD ROAD CAMBER Edge of Town Residential Zone Total No of Dwellings: 134 Survey date: FRIDAY 15/07/16	MIXED HOUSES & FLATS	EAST SUSSEX	Survey Type: MANUAL
3	HF-03-A-03 HARE STREET ROAD BUNTINGFORD Edge of Town Residential Zone Total No of Dwellings: 160 Survey date: MONDAY 08/07/19	MIXED HOUSES	HERTFORDSHIRE	Survey Type: MANUAL
4	IW-03-A-01 MEDHAM FARM LANE NEAR COWES MEDHAM Free Standing (PPS6 Out of Town) Out of Town Total No of Dwellings: 72 Survey date: TUESDAY 25/06/19	DETACHED HOUSES	ISLE OF WIGHT	Survey Type: MANUAL
5	KC-03-A-07 RECVLVER ROAD HERNE BAY Edge of Town Residential Zone Total No of Dwellings: 288 Survey date: WEDNESDAY 27/09/17	MIXED HOUSES	KENT	Survey Type: MANUAL
6	NF-03-A-04 NORTH WALSHAM ROAD NORTH WALSHAM Edge of Town Residential Zone Total No of Dwellings: 70 Survey date: WEDNESDAY 18/09/19	MIXED HOUSES	NORFOLK	Survey Type: MANUAL
7	NF-03-A-05 HEATH DRIVE HOLT Edge of Town Residential Zone Total No of Dwellings: 40 Survey date: THURSDAY 19/09/19	MIXED HOUSES	NORFOLK	Survey Type: MANUAL
8	NF-03-A-07 SILFIELD ROAD WYMONDHAM Edge of Town Out of Town Total No of Dwellings: 297 Survey date: FRIDAY 20/09/19	MIXED HOUSES & FLATS	NORFOLK	Survey Type: MANUAL
9	NF-03-A-10 HUNSTANTON ROAD HUNSTANTON Edge of Town Residential Zone Total No of Dwellings: 17 Survey date: WEDNESDAY 12/09/18	MIXED HOUSES & FLATS	NORFOLK	Survey Type: DIRECTIONAL ATC COUNT

LIST OF SITES relevant to selection parameters (Cont.)

10	NF-03-A-16	MIXED HOUSES & FLATS	NORFOLK
	NORWICH COMMON		
	WYMONDHAM		
	Edge of Town		
	Residential Zone		
	Total No of Dwellings:	138	
	Survey date: TUESDAY	20/10/15	Survey Type: DIRECTIONAL ATC COUNT
11	NY-03-A-11	PRIVATE HOUSING	NORTH YORKSHIRE
	HORSEFAIR		
	BOROUGHBRIDGE		
	Edge of Town		
	Residential Zone		
	Total No of Dwellings:	23	
	Survey date: WEDNESDAY	18/09/13	Survey Type: MANUAL
12	SH-03-A-05	SEMI-DETACHED / TERRACED	SHROPSHIRE
	SANDCROFT		
	TELFORD		
	SUTTON HILL		
	Edge of Town		
	Residential Zone		
	Total No of Dwellings:	54	
	Survey date: THURSDAY	24/10/13	Survey Type: MANUAL
13	SM-03-A-01	DETACHED & SEMI	SOMERSET
	WEMBDON ROAD		
	BRIDGWATER		
	NORTHFIELD		
	Edge of Town		
	Residential Zone		
	Total No of Dwellings:	33	
	Survey date: THURSDAY	24/09/15	Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED

TOTAL VEHICLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	13	105	0.107	13	105	0.321	13	105	0.428
08:00 - 09:00	13	105	0.165	13	105	0.359	13	105	0.524
09:00 - 10:00	13	105	0.163	13	105	0.183	13	105	0.346
10:00 - 11:00	13	105	0.144	13	105	0.179	13	105	0.323
11:00 - 12:00	13	105	0.133	13	105	0.178	13	105	0.311
12:00 - 13:00	13	105	0.165	13	105	0.162	13	105	0.327
13:00 - 14:00	13	105	0.173	13	105	0.163	13	105	0.336
14:00 - 15:00	13	105	0.188	13	105	0.202	13	105	0.390
15:00 - 16:00	13	105	0.307	13	105	0.187	13	105	0.494
16:00 - 17:00	13	105	0.310	13	105	0.188	13	105	0.498
17:00 - 18:00	13	105	0.362	13	105	0.178	13	105	0.540
18:00 - 19:00	13	105	0.302	13	105	0.199	13	105	0.501
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.519			2.499			5.018

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: $COUNT/TRP*FACT$. Trip rates are then rounded to 3 decimal places.

The survey data, graphs and all associated supporting information, contained within the TRICS Database are published by TRICS Consortium Limited ("the Company") and the Company claims copyright and database rights in this published work. The Company authorises those who possess a current TRICS licence to access the TRICS Database and copy the data contained within the TRICS Database for the licence holders' use only. Any resulting copy must retain all copyrights and other proprietary notices, and any disclaimer contained thereon.

The Company accepts no responsibility for loss which may arise from reliance on data contained in the TRICS Database. [No warranty of any kind, express or implied, is made as to the data contained in the TRICS Database.]

Parameter summary

Trip rate parameter range selected: 17 - 297 (units:)
 Survey date range: 01/01/12 - 08/10/19
 Number of weekdays (Monday-Friday): 17
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys automatically removed from selection: 1
 Surveys manually removed from selection: 0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Appendix N

Distribution Model (AM & PM Peak Hours)

AM PEAK HOUR MODEL (0800-0900)

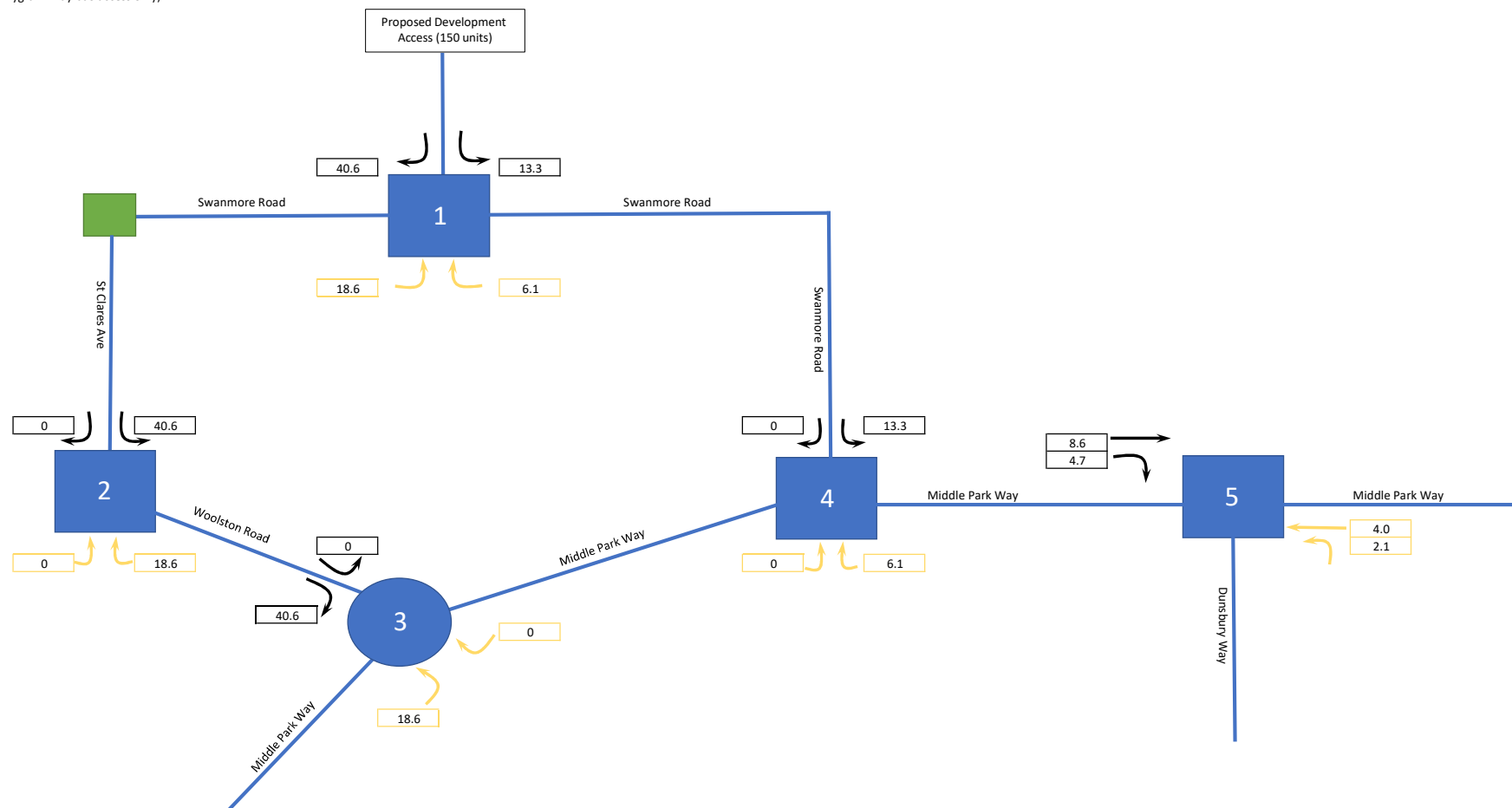
Out

In

- 1 Proposed Site Access
- 2 St Clares Avenue/Woolston Road priority junction
- 3 Woolston Road/Middle Park Way Mini roundabout
- 4 Swanmore Road/Middle Park Way priority junction
- 5 Dunsbury way/Middle Park Way junction

Assumptions:

HCC agreed all in/out west of the access goes through St Clares Ave
(Note: no access onto A3 as Fitzwygram Way bus access only)

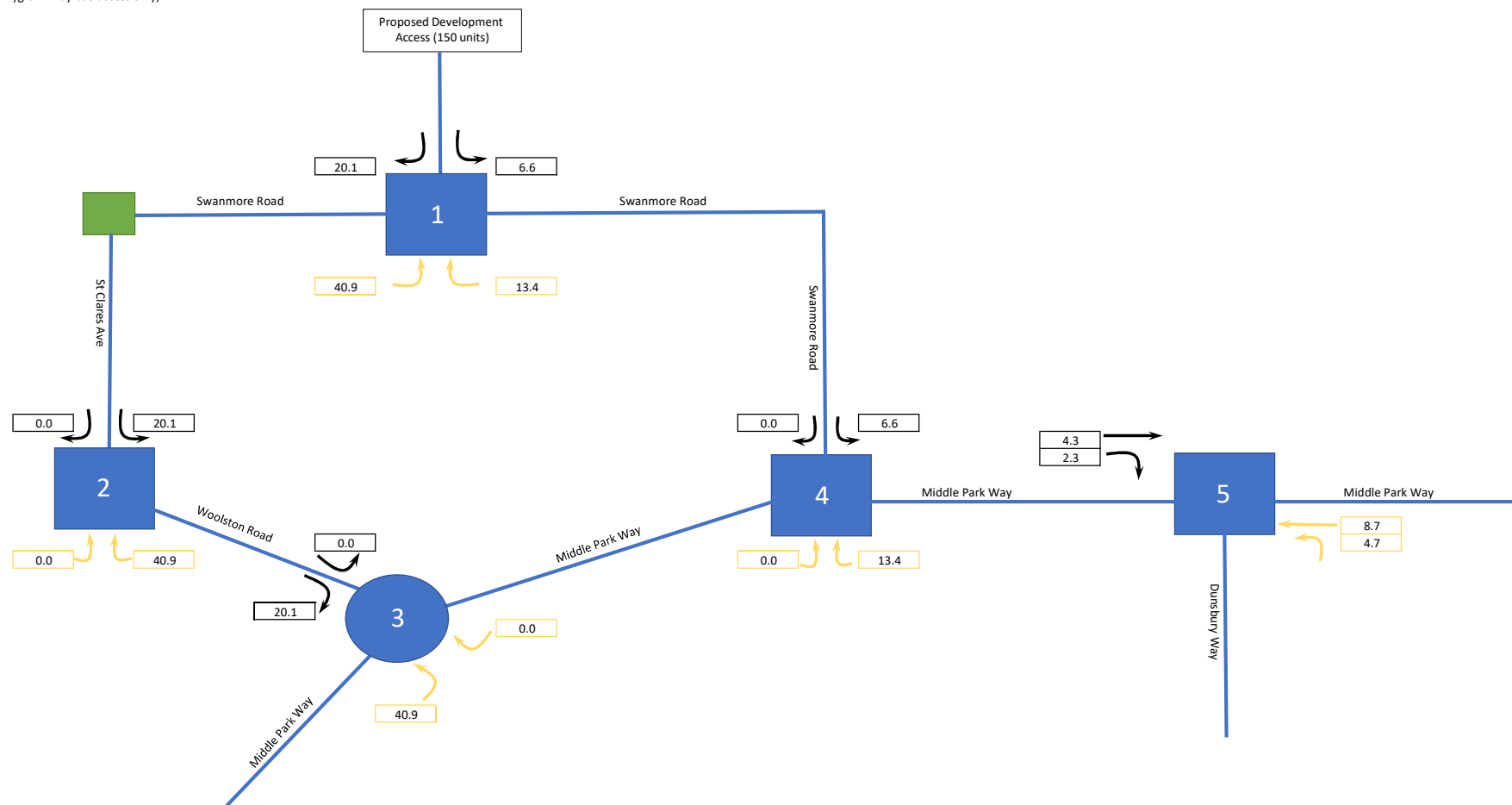


PM PEAK HOUR MODEL (1700-1800)

Out
In

- 1 Proposed Site Access
- 2 St Clares Avenue/Woolston Road priority junction
- 3 Woolston Road/Middle Park Way Mini roundabout
- 4 Swanmore Road/Middle Park Way priority junction
- 5 Dunsbury way/Middle Park Way junction

HCC agreed all in/out west of the access goes through St Clares Ave
(Note: no access onto A3 as Fitzwygram Way bus access only)



Appendix O

Junctions 9 Output Reports

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []
© Copyright TRL Limited, 2021

For sales and distribution information, program advice and maintenance, contact TRL:
Tel: +44 (0)1344 770758 email: software@trl.co.uk Web: http://www.trlsoftware.co.uk

The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: Site Access Swanmore Rd.j9

Path: W:\Projects\10731 TA Portsmouth CC Cabbagefield Row, Havant\2.8 Project Data\C. Misc\Junctions 9 Models\Site Access Swanmore Rd

Report generation date: 09/07/2021 12:58:09

»2023 Open Year + Dev, AM
»2023 Open Year + Dev, PM
»2028 Forecast Year + Dev, AM
»2028 Forecast Year + Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2023 Open Year + Dev								
Stream B-AC	0.1	8.01	0.12	A	0.1	7.54	0.06	A
Stream C-AB	0.0	5.36	0.01	A	0.0	5.53	0.03	A
2028 Forecast Year + Dev								
Stream B-AC	0.1	8.12	0.12	A	0.1	7.61	0.06	A
Stream C-AB	0.0	5.35	0.01	A	0.0	5.54	0.03	A

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

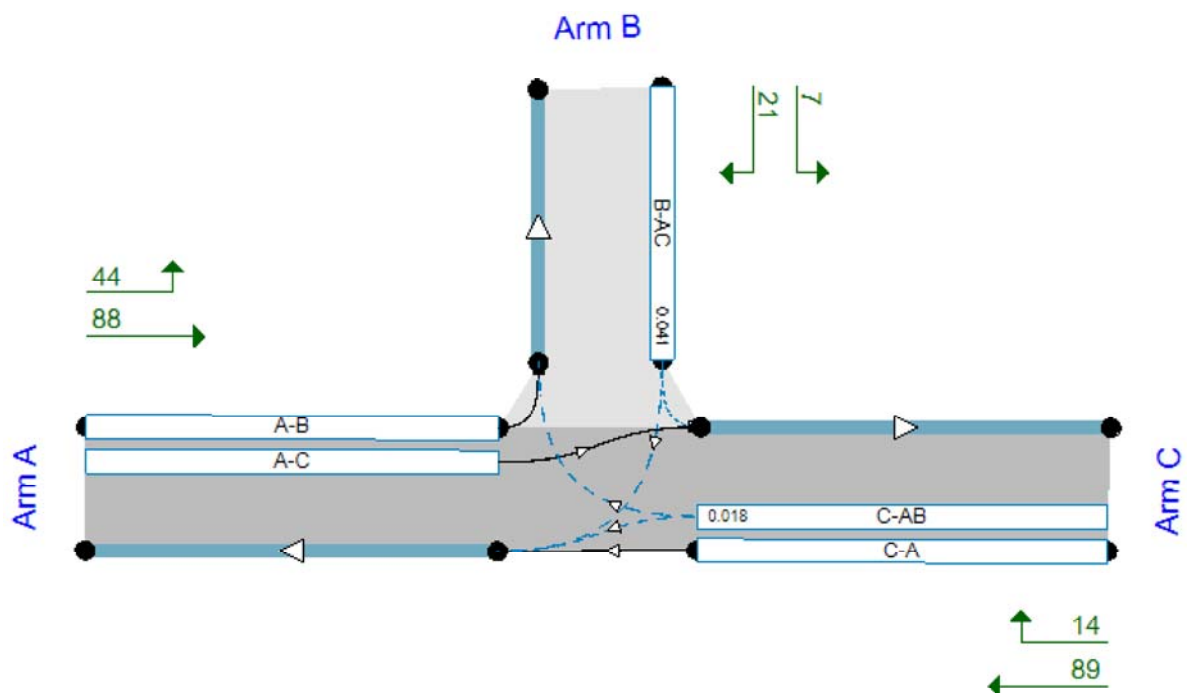
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	07/07/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	GTACIVILS\rstevenson
Description	

Units

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



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

The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2023 Open Year + Dev	AM	ONE HOUR	08:00	09:30	15
D2	2023 Open Year + Dev	PM	ONE HOUR	17:00	18:30	15
D3	2028 Forecast Year + Dev	AM	ONE HOUR	08:00	09:30	15
D4	2028 Forecast Year + Dev	PM	ONE HOUR	17:00	18:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2023 Open Year + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.75	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Swanmore Road (W)		Major
B	Site Access		Minor
C	Swanmore Road (E)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	6.90			120.0	✓	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	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	2.75	69	69

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	521	0.091	0.230	0.145	0.329
1	B-C	651	0.096	0.242	-	-
1	C-B	643	0.240	0.240	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

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)
D1	2023 Open Year + Dev	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	99	100.000
B		✓	54	100.000
C		✓	117	100.000

Origin-Destination Data

Demand (PCU/hr)

From	To			
		A	B	C
	A	0	19	80
	B	41	0	13
	C	111	6	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.12	8.01	0.1	A
C-AB	0.01	5.36	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	41	521	0.078	40	0.1	7.481	A
C-AB	5	680	0.008	5	0.0	5.354	A
C-A	83			83			
A-B	14			14			
A-C	60			60			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	48	516	0.094	48	0.1	7.699	A
C-AB	6	687	0.009	6	0.0	5.308	A
C-A	98			98			
A-B	17			17			
A-C	72			72			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	59	509	0.117	59	0.1	8.008	A
C-AB	8	697	0.012	8	0.0	5.247	A
C-A	120			120			
A-B	20			20			
A-C	88			88			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	59	509	0.117	59	0.1	8.012	A
C-AB	8	697	0.012	8	0.0	5.249	A
C-A	120			120			
A-B	20			20			

A-C	88			88			
-----	----	--	--	----	--	--	--

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	48	516	0.094	49	0.1	7.704	A
C-AB	6	687	0.009	6	0.0	5.314	A
C-A	98			98			
A-B	17			17			
A-C	72			72			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	41	521	0.078	41	0.1	7.495	A
C-AB	5	680	0.008	5	0.0	5.358	A
C-A	83			83			
A-B	14			14			
A-C	60			60			

2023 Open Year + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.14	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D2	2023 Open Year + Dev	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	125	100.000
B		✓	27	100.000
C		✓	99	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	41	84
	B	20	0	7
	C	85	13	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.06	7.54	0.1	A
C-AB	0.03	5.53	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	20	520	0.039	20	0.0	7.202	A
C-AB	11	663	0.017	11	0.0	5.533	A
C-A	63			63			
A-B	31			31			
A-C	63			63			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	24	514	0.047	24	0.0	7.343	A
C-AB	14	667	0.020	14	0.0	5.521	A
C-A	75			75			
A-B	37			37			
A-C	76			76			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	29	507	0.058	29	0.1	7.543	A
C-AB	17	672	0.026	17	0.0	5.506	A
C-A	91			91			
A-B	45			45			
A-C	93			93			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	29	507	0.058	29	0.1	7.544	A
C-AB	17	672	0.026	17	0.0	5.508	A
C-A	91			91			
A-B	45			45			
A-C	93			93			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	24	514	0.047	24	0.0	7.345	A
C-AB	14	667	0.020	14	0.0	5.524	A
C-A	75			75			
A-B	37			37			
A-C	76			76			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	20	520	0.039	20	0.0	7.209	A
C-AB	11	663	0.017	11	0.0	5.535	A
C-A	63			63			
A-B	31			31			
A-C	63			63			

2028 Forecast Year + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.80	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D3	2028 Forecast Year + Dev	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	104	100.000
B		✓	58	100.000
C		✓	122	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	20	84
	B	43	0	14
	C	116	7	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.12	8.12	0.1	A
C-AB	0.01	5.35	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	43	520	0.083	43	0.1	7.543	A
C-AB	6	682	0.008	6	0.0	5.345	A
C-A	86			86			
A-B	15			15			
A-C	63			63			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	52	514	0.100	52	0.1	7.778	A
C-AB	7	689	0.010	7	0.0	5.297	A
C-A	103			103			
A-B	18			18			
A-C	75			75			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	63	507	0.125	63	0.1	8.113	A
C-AB	9	700	0.013	9	0.0	5.234	A
C-A	126			126			
A-B	22			22			
A-C	92			92			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	63	507	0.125	63	0.1	8.116	A
C-AB	9	700	0.013	9	0.0	5.238	A
C-A	126			126			
A-B	22			22			
A-C	92			92			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	52	514	0.100	52	0.1	7.785	A
C-AB	7	689	0.010	7	0.0	5.304	A
C-A	103			103			
A-B	18			18			
A-C	75			75			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	43	520	0.083	43	0.1	7.558	A
C-AB	6	682	0.008	6	0.0	5.349	A
C-A	86			86			
A-B	15			15			
A-C	63			63			

2028 Forecast Year + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	1.17	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D4	2028 Forecast Year + Dev	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	131	100.000
B		✓	28	100.000
C		✓	103	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	44	88
	B	21	0	7
	C	89	14	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.06	7.61	0.1	A
C-AB	0.03	5.54	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	21	518	0.041	21	0.0	7.241	A
C-AB	12	664	0.018	12	0.0	5.534	A
C-A	66			66			
A-B	33			33			
A-C	66			66			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	26	512	0.050	25	0.1	7.392	A
C-AB	15	668	0.022	15	0.0	5.523	A
C-A	78			78			
A-B	39			39			
A-C	79			79			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	31	504	0.062	31	0.1	7.607	A
C-AB	18	674	0.027	18	0.0	5.508	A
C-A	95			95			
A-B	48			48			
A-C	97			97			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	31	504	0.062	31	0.1	7.607	A
C-AB	18	674	0.027	18	0.0	5.510	A
C-A	95			95			
A-B	48			48			
A-C	97			97			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	26	512	0.050	26	0.1	7.394	A
C-AB	15	668	0.022	15	0.0	5.526	A
C-A	78			78			
A-B	39			39			
A-C	79			79			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	21	518	0.041	21	0.0	7.248	A
C-AB	12	664	0.018	12	0.0	5.536	A
C-A	66			66			
A-B	33			33			
A-C	66			66			

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []
© Copyright TRL Limited, 2021

For sales and distribution information, program advice and maintenance, contact TRL:
Tel: +44 (0)1344 770758 email: software@trl.co.uk Web: http://www.trlsoftware.co.uk

The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: St Clares Ave Woolston Rd.j9

Path: W:\Projects\10731 TA Portsmouth CC Cabbagefield Row, Havant\2.8 Project Data\C. Misc\Junctions 9 Models\St Clares Ave Woolston Rd

Report generation date: 09/07/2021 13:00:10

»2021 Base Year, AM
»2021 Base Year, PM
»2023 Open Year, AM
»2023 Open Year, PM
»2023 Open Year + Dev, AM
»2023 Open Year + Dev, PM
»2028 Forecast Year, AM
»2028 Forecast Year, PM
»2028 Forecast + Dev, AM
»2028 Forecast + Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2021 Base Year								
Stream B-AC	0.3	8.23	0.25	A	0.2	7.77	0.20	A
Stream C-AB	0.2	6.19	0.17	A	0.3	6.34	0.20	A
2023 Open Year								
Stream B-AC	0.3	8.31	0.25	A	0.3	7.83	0.20	A
Stream C-AB	0.2	6.21	0.17	A	0.3	6.37	0.21	A
2023 Open Year + Dev								
Stream B-AC	0.5	9.21	0.33	A	0.3	8.19	0.24	A
Stream C-AB	0.3	6.48	0.21	A	0.5	7.05	0.28	A
2028 Forecast Year								
Stream B-AC	0.4	8.47	0.27	A	0.3	7.94	0.21	A
Stream C-AB	0.3	6.26	0.18	A	0.3	6.43	0.22	A
2028 Forecast + Dev								
Stream B-AC	0.5	9.46	0.35	A	0.3	8.33	0.25	A
Stream C-AB	0.3	6.55	0.22	A	0.5	7.17	0.30	A

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

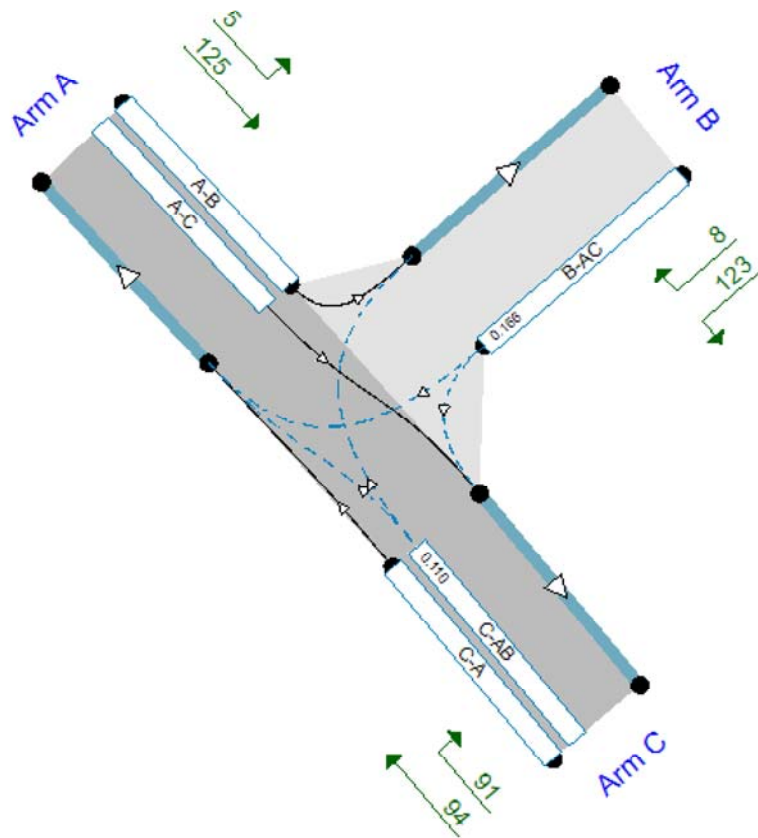
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	22/06/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	GTACIVILS\rstevenson
Description	

Units

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



Flows show original traffic demand (PCU/h).
Streams (downstream end) show RFC (%)

The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2021 Base Year	AM	ONE HOUR	08:00	09:30	15
D2	2021 Base Year	PM	ONE HOUR	17:00	18:30	15
D5	2023 Open Year	AM	ONE HOUR	08:00	09:30	15
D6	2023 Open Year	PM	ONE HOUR	17:00	18:30	15
D7	2023 Open Year + Dev	AM	ONE HOUR	08:00	09:30	15
D8	2023 Open Year + Dev	PM	ONE HOUR	17:00	18:30	15
D10	2028 Forecast Year	AM	ONE HOUR	08:00	09:30	15
D11	2028 Forecast Year	PM	ONE HOUR	17:00	18:30	15
D12	2028 Forecast + Dev	AM	ONE HOUR	08:00	09:30	15
D13	2028 Forecast + Dev	PM	ONE HOUR	17:00	18:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2021 Base Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.86	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Woolston Road (N)		Major
B	St Clares Avenue		Minor
C	Woolston Road (S)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	9.50			160.0	✓	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	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	2.60	30	43

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	488	0.075	0.190	0.120	0.272
1	B-C	625	0.081	0.205	-	-
1	C-B	667	0.219	0.219	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

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)
D1	2021 Base Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	130	100.000
B		✓	131	100.000
C		✓	185	100.000

Origin-Destination Data

Demand (PCU/hr)

From	To			
		A	B	C
	A	0	5	125
	B	8	0	123
	C	94	91	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.25	8.23	0.3	A
C-AB	0.17	6.19	0.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	98	592	0.166	98	0.2	7.274	A
C-AB	76	691	0.110	76	0.1	5.868	A
C-A	63			63			
A-B	4			4			
A-C	94			94			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	118	587	0.200	117	0.2	7.656	A
C-AB	93	695	0.134	93	0.2	5.995	A
C-A	73			73			
A-B	5			5			
A-C	112			112			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	144	581	0.248	144	0.3	8.222	A
C-AB	117	702	0.167	117	0.2	6.179	A
C-A	86			86			
A-B	6			6			
A-C	137			137			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	144	581	0.248	144	0.3	8.234	A
C-AB	117	702	0.167	117	0.2	6.187	A
C-A	86			86			
A-B	6			6			

A-C	137			137			
-----	-----	--	--	-----	--	--	--

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	118	587	0.200	118	0.3	7.672	A
C-AB	93	695	0.134	93	0.2	6.006	A
C-A	73			73			
A-B	5			5			
A-C	112			112			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	98	592	0.166	99	0.2	7.303	A
C-AB	76	691	0.110	76	0.1	5.886	A
C-A	63			63			
A-B	4			4			
A-C	94			94			

2021 Base Year, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.79	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D2	2021 Base Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	98	100.000
B		✓	103	100.000
C		✓	227	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	10	88
	B	11	0	92
	C	118	109	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.20	7.77	0.2	A
C-AB	0.20	6.34	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	78	586	0.132	77	0.2	7.058	A
C-AB	94	707	0.133	93	0.2	5.977	A
C-A	77			77			
A-B	8			8			
A-C	66			66			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	93	582	0.159	92	0.2	7.349	A
C-AB	115	715	0.161	115	0.2	6.121	A
C-A	89			89			
A-B	9			9			
A-C	79			79			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	113	577	0.197	113	0.2	7.766	A
C-AB	146	726	0.202	146	0.3	6.330	A
C-A	103			103			
A-B	11			11			
A-C	96			96			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	113	577	0.197	113	0.2	7.772	A
C-AB	147	726	0.202	147	0.3	6.340	A
C-A	103			103			
A-B	11			11			
A-C	96			96			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	93	582	0.159	93	0.2	7.362	A
C-AB	115	715	0.161	116	0.2	6.133	A
C-A	88			88			
A-B	9			9			
A-C	79			79			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	78	586	0.132	78	0.2	7.081	A
C-AB	94	707	0.133	94	0.2	5.995	A
C-A	77			77			
A-B	8			8			
A-C	66			66			

2023 Open Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.90	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D5	2023 Open Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	133	100.000
B		✓	134	100.000
C		✓	188	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	127
	B	8	0	125
	C	96	93	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.25	8.31	0.3	A
C-AB	0.17	6.21	0.2	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	101	591	0.170	100	0.2	7.313	A
C-AB	78	691	0.113	77	0.1	5.880	A
C-A	64			64			
A-B	4			4			
A-C	96			96			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	120	587	0.205	120	0.3	7.708	A
C-AB	95	696	0.137	95	0.2	6.012	A
C-A	74			74			
A-B	5			5			
A-C	114			114			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	147	580	0.253	147	0.3	8.295	A
C-AB	120	703	0.171	120	0.2	6.202	A
C-A	87			87			
A-B	6			6			
A-C	140			140			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	147	580	0.253	147	0.3	8.306	A
C-AB	120	703	0.171	120	0.2	6.207	A
C-A	87			87			
A-B	6			6			
A-C	140			140			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	120	587	0.205	120	0.3	7.726	A
C-AB	95	696	0.137	95	0.2	6.023	A
C-A	74			74			
A-B	5			5			
A-C	114			114			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	101	591	0.170	101	0.2	7.345	A
C-AB	78	691	0.113	78	0.1	5.899	A
C-A	64			64			
A-B	4			4			
A-C	96			96			

2023 Open Year, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.82	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D6	2023 Open Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	100	100.000
B		✓	105	100.000
C		✓	231	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
From	A	0	11	89
	B	12	0	94
	C	120	111	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.20	7.83	0.3	A
C-AB	0.21	6.37	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	79	586	0.135	79	0.2	7.090	A
C-AB	96	708	0.136	95	0.2	5.990	A
C-A	78			78			
A-B	8			8			
A-C	67			67			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	95	582	0.163	94	0.2	7.388	A
C-AB	118	716	0.165	118	0.2	6.139	A
C-A	90			90			
A-B	9			9			
A-C	80			80			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	116	576	0.201	116	0.2	7.818	A
C-AB	150	727	0.206	150	0.3	6.356	A
C-A	105			105			
A-B	12			12			
A-C	98			98			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	116	576	0.201	116	0.3	7.826	A
C-AB	150	728	0.206	150	0.3	6.366	A
C-A	105			105			
A-B	12			12			
A-C	98			98			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	95	582	0.163	95	0.2	7.398	A
C-AB	118	716	0.165	118	0.2	6.149	A
C-A	90			90			
A-B	9			9			
A-C	80			80			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	79	586	0.135	79	0.2	7.112	A
C-AB	96	708	0.136	96	0.2	6.008	A
C-A	78			78			
A-B	8			8			
A-C	67			67			

2023 Open Year + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.75	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D7	2023 Open Year + Dev	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	133	100.000
B		✓	175	100.000
C		✓	207	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	5	127
	B	8	0	167
	C	96	112	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.33	9.21	0.5	A
C-AB	0.21	6.48	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	132	594	0.222	131	0.3	7.749	A
C-AB	94	691	0.136	93	0.2	6.035	A
C-A	62			62			
A-B	4			4			
A-C	96			96			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	157	590	0.267	157	0.4	8.315	A
C-AB	115	696	0.165	114	0.2	6.213	A
C-A	72			72			
A-B	5			5			
A-C	114			114			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	193	583	0.330	192	0.5	9.188	A
C-AB	145	703	0.206	144	0.3	6.473	A
C-A	84			84			
A-B	6			6			
A-C	140			140			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	193	583	0.330	193	0.5	9.211	A
C-AB	145	703	0.206	145	0.3	6.484	A
C-A	84			84			
A-B	6			6			
A-C	140			140			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	157	590	0.267	158	0.4	8.346	A
C-AB	115	696	0.165	115	0.2	6.229	A
C-A	72			72			
A-B	5			5			
A-C	114			114			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	132	594	0.222	132	0.3	7.797	A
C-AB	94	691	0.136	94	0.2	6.058	A
C-A	62			62			
A-B	4			4			
A-C	96			96			

2023 Open Year + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.64	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D8	2023 Open Year + Dev	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	100	100.000
B		✓	126	100.000
C		✓	273	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	89
	B	12	0	114
	C	120	153	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.24	8.19	0.3	A
C-AB	0.28	7.05	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	95	588	0.161	94	0.2	7.273	A
C-AB	132	708	0.187	131	0.3	6.358	A
C-A	73			73			
A-B	8			8			
A-C	67			67			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	113	584	0.194	113	0.2	7.638	A
C-AB	162	716	0.227	162	0.3	6.627	A
C-A	83			83			
A-B	9			9			
A-C	80			80			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	138	578	0.239	138	0.3	8.179	A
C-AB	206	727	0.284	206	0.5	7.040	A
C-A	94			94			
A-B	12			12			
A-C	98			98			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	138	578	0.240	138	0.3	8.191	A
C-AB	206	728	0.284	206	0.5	7.052	A
C-A	94			94			
A-B	12			12			
A-C	98			98			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	113	584	0.194	113	0.2	7.657	A
C-AB	162	716	0.227	163	0.3	6.649	A
C-A	83			83			
A-B	9			9			
A-C	80			80			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	95	588	0.161	95	0.2	7.303	A
C-AB	132	708	0.187	133	0.3	6.388	A
C-A	73			73			
A-B	8			8			
A-C	67			67			

2028 Forecast Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.97	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D10	2028 Forecast Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	139	100.000
B		✓	140	100.000
C		✓	197	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	6	133
	B	9	0	131
	C	100	97	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.27	8.47	0.4	A
C-AB	0.18	6.26	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	105	590	0.178	104	0.2	7.398	A
C-AB	82	692	0.118	81	0.2	5.908	A
C-A	66			66			
A-B	4			4			
A-C	100			100			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	126	585	0.215	125	0.3	7.820	A
C-AB	100	697	0.143	100	0.2	6.048	A
C-A	77			77			
A-B	5			5			
A-C	120			120			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	154	579	0.266	153	0.4	8.455	A
C-AB	126	705	0.179	126	0.3	6.251	A
C-A	90			90			
A-B	6			6			
A-C	147			147			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	154	579	0.266	154	0.4	8.468	A
C-AB	126	705	0.179	126	0.3	6.262	A
C-A	90			90			
A-B	6			6			
A-C	147			147			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	126	585	0.215	126	0.3	7.841	A
C-AB	100	697	0.143	100	0.2	6.061	A
C-A	77			77			
A-B	5			5			
A-C	120			120			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	105	590	0.178	105	0.2	7.429	A
C-AB	82	692	0.118	82	0.2	5.925	A
C-A	66			66			
A-B	4			4			
A-C	100			100			

2028 Forecast Year, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.88	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D11	2028 Forecast Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	104	100.000
B		✓	110	100.000
C		✓	242	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	93
	B	12	0	98
	C	125	116	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.21	7.94	0.3	A
C-AB	0.22	6.43	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	83	585	0.141	82	0.2	7.152	A
C-AB	101	710	0.142	100	0.2	6.020	A
C-A	81			81			
A-B	8			8			
A-C	70			70			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	99	580	0.170	99	0.2	7.469	A
C-AB	124	718	0.173	124	0.2	6.180	A
C-A	93			93			
A-B	10			10			
A-C	84			84			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	121	574	0.210	121	0.3	7.929	A
C-AB	158	730	0.217	158	0.3	6.416	A
C-A	108			108			
A-B	12			12			
A-C	103			103			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	121	574	0.210	121	0.3	7.937	A
C-AB	158	730	0.217	158	0.3	6.426	A
C-A	108			108			
A-B	12			12			
A-C	103			103			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	99	580	0.170	99	0.2	7.482	A
C-AB	124	718	0.173	125	0.3	6.191	A
C-A	93			93			
A-B	10			10			
A-C	84			84			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	83	585	0.141	83	0.2	7.174	A
C-AB	101	710	0.143	101	0.2	6.039	A
C-A	81			81			
A-B	8			8			
A-C	70			70			

2028 Forecast + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.86	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D12	2028 Forecast + Dev	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	139	100.000
B		✓	183	100.000
C		✓	217	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	6	133
	B	9	0	174
	C	100	117	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.35	9.46	0.5	A
C-AB	0.22	6.55	0.3	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	138	593	0.232	137	0.3	7.867	A
C-AB	99	692	0.142	98	0.2	6.073	A
C-A	65			65			
A-B	4			4			
A-C	100			100			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	165	588	0.280	164	0.4	8.479	A
C-AB	121	697	0.173	120	0.2	6.263	A
C-A	74			74			
A-B	5			5			
A-C	120			120			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	201	582	0.346	201	0.5	9.435	A
C-AB	152	705	0.216	152	0.3	6.544	A
C-A	86			86			
A-B	6			6			
A-C	147			147			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	201	582	0.346	201	0.5	9.462	A
C-AB	153	705	0.216	153	0.3	6.554	A
C-A	86			86			
A-B	6			6			
A-C	147			147			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	165	588	0.280	165	0.4	8.515	A
C-AB	121	697	0.173	121	0.2	6.281	A
C-A	74			74			
A-B	5			5			
A-C	120			120			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	138	593	0.232	138	0.3	7.920	A
C-AB	99	692	0.143	99	0.2	6.096	A
C-A	65			65			
A-B	4			4			
A-C	100			100			

2028 Forecast + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.74	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D13	2028 Forecast + Dev	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	104	100.000
B		✓	131	100.000
C		✓	285	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	11	93
	B	12	0	119
	C	125	160	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.25	8.33	0.3	A
C-AB	0.30	7.17	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	99	587	0.168	98	0.2	7.346	A
C-AB	139	710	0.196	138	0.3	6.411	A
C-A	76			76			
A-B	8			8			
A-C	70			70			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	118	583	0.202	118	0.3	7.739	A
C-AB	171	718	0.238	170	0.4	6.701	A
C-A	86			86			
A-B	10			10			
A-C	84			84			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	144	576	0.251	144	0.3	8.321	A
C-AB	217	730	0.298	217	0.5	7.152	A
C-A	97			97			
A-B	12			12			
A-C	103			103			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	144	576	0.251	144	0.3	8.333	A
C-AB	217	730	0.298	217	0.5	7.169	A
C-A	96			96			
A-B	12			12			
A-C	103			103			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	118	583	0.202	118	0.3	7.757	A
C-AB	171	718	0.238	171	0.4	6.723	A
C-A	85			85			
A-B	10			10			
A-C	84			84			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	99	587	0.168	99	0.2	7.377	A
C-AB	139	710	0.196	139	0.3	6.446	A
C-A	76			76			
A-B	8			8			
A-C	70			70			

Junctions 9 ARCADY 9 - Roundabout Module
Version: 9.0.1.4646 [] © Copyright TRL Limited, 2021
For sales and distribution information, program advice and maintenance, contact TRL: Tel: +44 (0)1344 770758 email: software@trl.co.uk Web: http://www.trlsoftware.co.uk
The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: Middle Park Way Mini Roundabout.j9
Path: W:\Projects\10731 TA Portsmouth CC Cabbagefield Row, Havant\2.8 Project Data\C. Misc\Junctions 9 Models\Woolston Rd Middle PW
Report generation date: 09/07/2021 13:06:32

- »2021 Base Year, AM
- »2021 Base Year, PM
- »2023 Open Year, AM
- »2023 Open Year, PM
- »2023 Open Year + Dev, AM
- »2023 Open Year + Dev, PM
- »2028 Forecast Year, AM
- »2028 Forecast Year, PM
- »2028 Forecast Year + Dev, AM
- »2028 Forecast Year + Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2021 Base Year								
Arm 1	1.0	7.77	0.49	A	0.6	6.05	0.38	A
Arm 2	0.9	6.86	0.46	A	1.6	9.57	0.62	A
Arm 3	0.7	9.83	0.43	A	0.5	9.24	0.34	A
2023 Open Year								
Arm 1	1.0	7.99	0.50	A	0.6	6.14	0.39	A
Arm 2	0.9	7.00	0.47	A	1.7	9.91	0.63	A
Arm 3	0.8	10.11	0.44	B	0.5	9.46	0.35	A
2023 Open Year + Dev								
Arm 1	1.1	8.53	0.52	A	0.6	6.30	0.39	A
Arm 2	1.0	7.29	0.49	A	2.1	11.30	0.68	B
Arm 3	1.0	11.58	0.51	B	0.6	10.06	0.39	B
2028 Forecast Year								
Arm 1	1.1	8.49	0.53	A	0.7	6.36	0.40	A
Arm 2	1.0	7.32	0.50	A	1.9	10.75	0.66	B
Arm 3	0.9	10.76	0.47	B	0.6	9.99	0.37	A
2028 Forecast Year + Dev								
Arm 1	1.2	9.14	0.55	A	0.7	6.54	0.41	A
Arm 2	1.1	7.67	0.52	A	2.4	12.50	0.71	B
Arm 3	1.2	12.54	0.54	B	0.7	10.69	0.41	B

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

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

File summary

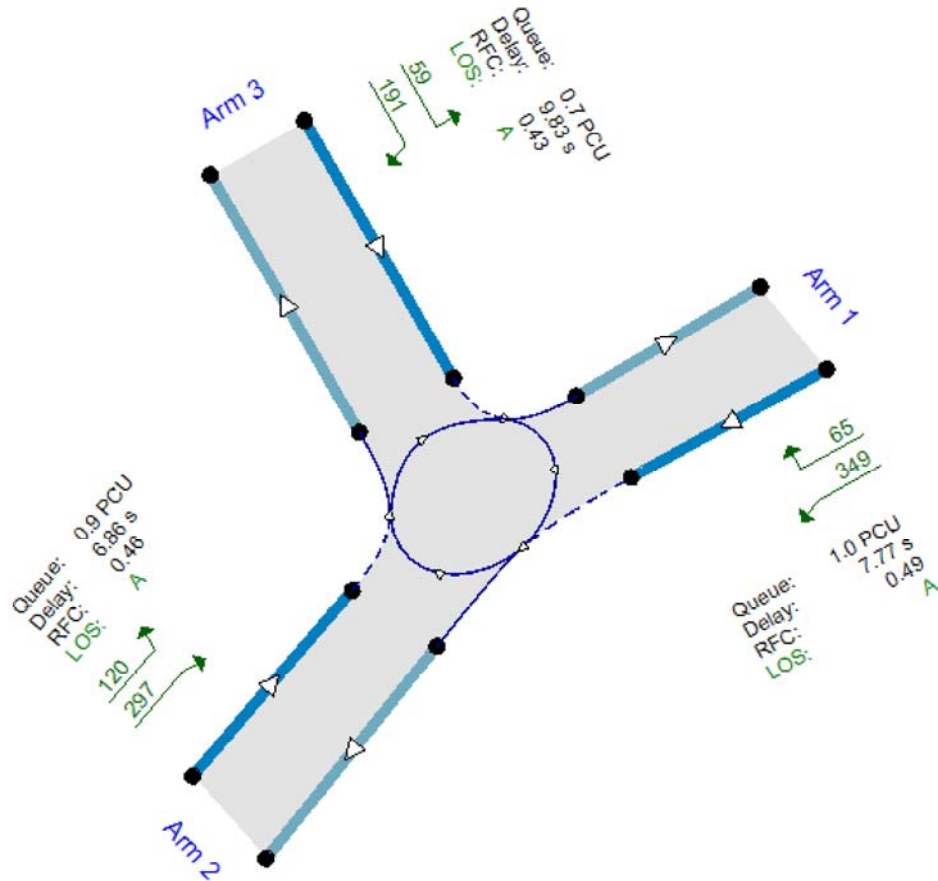
File Description

Title	(untitled)
Location	
Site number	
Date	21/06/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	

Enumerator	GTACIVILS\rstevenson
Description	

Units

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



Flows show original traffic demand (PCU/h).

The junction diagram reflects the last run of Junctions.

Analysis Options

Mini-roundabout model	Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
JUNCTIONS 9			0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2021 Base Year	AM	ONE HOUR	08:00	09:30	15
D2	2021 Base Year	PM	ONE HOUR	17:00	18:30	15
D5	2023 Open Year	AM	ONE HOUR	08:00	09:30	15
D6	2023 Open Year	PM	ONE HOUR	17:00	18:30	15
D7	2023 Open Year + Dev	AM	ONE HOUR	08:00	09:30	15
D8	2023 Open Year + Dev	PM	ONE HOUR	17:00	18:30	15
D9	2028 Forecast Year	AM	ONE HOUR	08:00	09:30	15
D10	2028 Forecast Year	PM	ONE HOUR	17:00	18:30	15
D11	2028 Forecast Year + Dev	AM	ONE HOUR	08:00	09:30	15
D12	2028 Forecast Year + Dev	PM	ONE HOUR	17:00	18:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2021 Base Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout	7.90	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

Arms

Arms

Arm	Name	Description
1	Middle Park Way (E)	
2	Middle Park Way (SW)	
3	Woolston Road	

Mini Roundabout Geometry

Arm	Approach road half-width (m)	Minimum approach road half-width (m)	Entry width (m)	Effective flare length (m)	Distance to next arm (m)	Entry corner kerb line distance (m)	Gradient over 50m (%)	Kerbed central island
1	3.50	3.50	4.00	1.5	13.80	14.84	0.0	
2	4.00	4.00	4.00	0.0	8.30	7.00	0.0	
3	3.00	2.50	5.10	3.5	8.50	9.90	0.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.641	1061
2	0.628	1037
3	0.602	840

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

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)
D1	2021 Base Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	414	100.000
2		✓	417	100.000
3		✓	249	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
	1	2	3	
1	0	349	65	

From	2	297	0	120
	3	59	191	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.49	7.77	1.0	A
2	0.46	6.86	0.9	A
3	0.43	9.83	0.7	A

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	312	142	970	0.321	310	0.5	5.530	A
2	314	49	1007	0.312	312	0.5	5.250	A
3	188	222	706	0.266	186	0.4	6.953	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	372	171	952	0.391	372	0.6	6.303	A
2	375	58	1001	0.375	374	0.6	5.833	A
3	224	267	680	0.330	224	0.5	7.945	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	456	209	927	0.492	455	1.0	7.726	A
2	459	71	992	0.463	458	0.9	6.828	A
3	274	326	644	0.426	274	0.7	9.772	A

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	456	210	927	0.492	456	1.0	7.774	A
2	459	71	992	0.463	459	0.9	6.856	A
3	274	327	643	0.427	274	0.7	9.833	A

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	372	172	951	0.392	374	0.7	6.353	A
2	375	59	1000	0.375	376	0.6	5.865	A
3	224	268	679	0.330	225	0.5	8.010	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	312	144	969	0.322	313	0.5	5.583	A
2	314	49	1006	0.312	315	0.5	5.288	A
3	188	224	705	0.266	188	0.4	7.022	A

2021 Base Year, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 2 have 83% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout	8.43	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D2	2021 Base Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	332	100.000
2		✓	563	100.000
3		✓	180	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		1	2	3
From	1	0	282	50
	2	380	0	182
	3	50	131	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.38	6.05	0.6	A
2	0.62	9.57	1.6	A
3	0.34	9.24	0.5	A

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	250	98	999	0.250	248	0.3	4.859	A
2	424	37	1014	0.418	421	0.7	6.160	A
3	136	284	669	0.203	135	0.3	6.727	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	298	117	986	0.303	298	0.4	5.303	A
2	506	44	1009	0.501	505	1.0	7.260	A
3	162	341	635	0.255	162	0.3	7.606	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	365	144	969	0.377	365	0.6	6.034	A
2	619	54	1003	0.618	617	1.6	9.454	A
3	199	417	589	0.337	198	0.5	9.189	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	365	144	969	0.377	365	0.6	6.049	A
2	619	54	1003	0.618	619	1.6	9.565	A
3	199	419	588	0.338	199	0.5	9.241	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	298	118	986	0.303	299	0.4	5.323	A
2	506	45	1009	0.501	508	1.0	7.363	A
3	162	343	633	0.256	163	0.3	7.659	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	250	99	998	0.250	250	0.3	4.887	A
2	424	37	1014	0.418	425	0.7	6.246	A
3	136	287	667	0.204	136	0.3	6.784	A

2023 Open Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout	8.09	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D5	2023 Open Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	423	100.000
2		✓	426	100.000
3		✓	255	100.000

Origin-Destination Data

Demand (PCU/hr)

	To		
	1	2	3
From	1	0	357
	2	303	0
	3	60	195

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.50	7.99	1.0	A
2	0.47	7.00	0.9	A
3	0.44	10.11	0.8	B

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	318	145	968	0.329	316	0.5	5.601	A
2	321	50	1006	0.319	319	0.5	5.306	A
3	192	227	703	0.272	190	0.4	7.047	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	380	175	949	0.401	380	0.7	6.416	A
2	383	59	1000	0.383	382	0.6	5.913	A
3	229	272	676	0.338	228	0.5	8.088	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	466	213	924	0.504	464	1.0	7.933	A
2	469	73	991	0.473	468	0.9	6.967	A
3	280	333	640	0.438	279	0.8	10.037	B

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	466	214	924	0.504	466	1.0	7.987	A
2	469	73	991	0.473	469	0.9	6.996	A
3	280	334	639	0.439	280	0.8	10.107	B

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	380	176	949	0.401	382	0.7	6.470	A
2	383	60	1000	0.383	384	0.6	5.949	A
3	229	273	676	0.339	230	0.5	8.160	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	318	147	967	0.329	319	0.5	5.655	A
2	321	50	1006	0.319	321	0.5	5.345	A
3	192	229	702	0.273	192	0.4	7.120	A

2023 Open Year, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 2 have 83% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout	8.67	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D6	2023 Open Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	339	100.000
2		✓	574	100.000
3		✓	184	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1	2	3
From	1	0	288	51
	2	388	0	186
	3	51	134	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.39	6.14	0.6	A
2	0.63	9.91	1.7	A
3	0.35	9.46	0.5	A

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	255	100	997	0.256	254	0.3	4.900	A
2	432	38	1013	0.426	429	0.7	6.254	A
3	139	290	666	0.208	137	0.3	6.807	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	304	120	985	0.309	304	0.5	5.362	A
2	516	45	1009	0.512	515	1.1	7.416	A
3	165	348	631	0.262	165	0.4	7.725	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	373	146	967	0.385	372	0.6	6.126	A
2	632	55	1002	0.631	629	1.7	9.776	A
3	203	425	584	0.347	202	0.5	9.403	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	373	147	967	0.386	373	0.6	6.144	A
2	632	56	1002	0.631	632	1.7	9.906	A
3	203	427	583	0.347	203	0.5	9.462	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	304	120	984	0.309	305	0.5	5.383	A
2	516	46	1009	0.512	519	1.1	7.532	A
3	165	350	629	0.263	166	0.4	7.784	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	255	101	997	0.256	255	0.4	4.930	A
2	432	38	1013	0.426	433	0.8	6.348	A
3	139	293	664	0.209	139	0.3	6.862	A

2023 Open Year + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout	8.83	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D7	2023 Open Year + Dev	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	423	100.000
2		✓	445	100.000
3		✓	296	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		1	2	3
From	1	0	357	66
	2	303	0	142
	3	60	236	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.52	8.53	1.1	A
2	0.49	7.29	1.0	A
3	0.51	11.58	1.0	B

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	318	176	948	0.336	316	0.5	5.775	A
2	335	50	1006	0.333	333	0.5	5.419	A
3	223	227	704	0.317	221	0.5	7.493	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	380	212	926	0.411	380	0.7	6.693	A
2	400	59	1000	0.400	399	0.7	6.086	A
3	266	272	676	0.394	265	0.6	8.817	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	466	259	895	0.520	464	1.1	8.459	A
2	490	73	992	0.494	489	1.0	7.257	A
3	326	333	640	0.510	324	1.0	11.460	B

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	466	260	895	0.521	466	1.1	8.530	A
2	490	73	991	0.494	490	1.0	7.294	A
3	326	334	639	0.510	326	1.0	11.582	B

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	380	213	924	0.411	382	0.7	6.765	A
2	400	60	1000	0.400	401	0.7	6.124	A
3	266	273	676	0.394	268	0.7	8.930	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	318	178	947	0.336	319	0.5	5.841	A
2	335	50	1006	0.333	336	0.5	5.464	A
3	223	229	702	0.317	224	0.5	7.594	A

2023 Open Year + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 2 have 82% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout	9.62	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D8	2023 Open Year + Dev	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	339	100.000
2		✓	616	100.000
3		✓	205	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		1	2	3
From	1	0	288	51
	2	388	0	228
	3	51	154	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.39	6.30	0.6	A
2	0.68	11.30	2.1	B
3	0.39	10.06	0.6	B

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	255	115	988	0.258	254	0.4	4.966	A
2	464	38	1013	0.457	460	0.8	6.598	A
3	154	290	666	0.231	153	0.3	7.004	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	304	138	973	0.313	304	0.5	5.456	A
2	554	45	1009	0.549	552	1.2	8.013	A
3	184	348	631	0.291	183	0.4	8.039	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	373	169	953	0.391	372	0.6	6.278	A
2	678	55	1002	0.676	675	2.1	11.084	B
3	225	425	584	0.385	224	0.6	9.977	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	373	170	953	0.391	373	0.6	6.297	A
2	678	56	1002	0.676	678	2.1	11.301	B
3	225	427	583	0.386	225	0.6	10.056	B

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	304	139	972	0.313	305	0.5	5.482	A
2	554	46	1009	0.549	557	1.3	8.185	A
3	184	351	629	0.292	185	0.4	8.117	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	255	116	987	0.258	255	0.4	4.997	A
2	464	38	1013	0.457	465	0.9	6.719	A
3	154	293	664	0.232	154	0.3	7.076	A

2028 Forecast Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout	8.56	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D9	2028 Forecast Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	442	100.000
2		✓	445	100.000
3		✓	266	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1	2	3
From	1	0	373	69
	2	317	0	128
	3	63	204	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.53	8.49	1.1	A
2	0.50	7.32	1.0	A
3	0.47	10.76	0.9	B

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	333	152	964	0.345	331	0.5	5.762	A
2	335	52	1005	0.334	333	0.5	5.427	A
3	200	237	697	0.287	199	0.4	7.253	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	397	182	944	0.421	396	0.7	6.672	A
2	400	62	998	0.401	400	0.7	6.100	A
3	239	285	669	0.358	239	0.6	8.422	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	487	223	918	0.530	485	1.1	8.418	A
2	490	76	990	0.495	489	1.0	7.285	A
3	293	348	630	0.465	292	0.9	10.673	B

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	487	224	918	0.530	486	1.1	8.487	A
2	490	76	989	0.495	490	1.0	7.321	A
3	293	349	630	0.465	293	0.9	10.763	B

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	397	184	943	0.421	399	0.7	6.742	A
2	400	62	998	0.401	401	0.7	6.142	A
3	239	286	668	0.358	240	0.6	8.509	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	333	154	963	0.346	334	0.5	5.826	A
2	335	52	1005	0.334	336	0.5	5.475	A
3	200	239	696	0.288	201	0.4	7.335	A

2028 Forecast Year, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 2 have 83% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout	9.27	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D10	2028 Forecast Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	354	100.000
2		✓	599	100.000
3		✓	192	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1	2	3
From	1	0	301	53
	2	405	0	194
	3	53	139	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.40	6.36	0.7	A
2	0.66	10.75	1.9	B
3	0.37	9.99	0.6	A

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	266	104	995	0.268	265	0.4	4.993	A
2	451	39	1012	0.446	448	0.8	6.470	A
3	145	303	658	0.220	144	0.3	6.985	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	318	125	981	0.324	317	0.5	5.498	A
2	539	47	1008	0.535	537	1.2	7.787	A
3	173	363	621	0.278	172	0.4	8.007	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	389	153	963	0.404	388	0.7	6.343	A
2	660	58	1001	0.659	657	1.9	10.578	B
3	212	444	573	0.369	211	0.6	9.918	A

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	389	153	963	0.404	389	0.7	6.364	A
2	660	58	1001	0.659	660	1.9	10.755	B
3	212	446	572	0.370	211	0.6	9.991	A

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	318	126	981	0.324	319	0.5	5.524	A
2	539	47	1007	0.535	542	1.2	7.935	A
3	173	366	620	0.279	173	0.4	8.082	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	266	105	994	0.268	267	0.4	5.026	A
2	451	40	1012	0.446	453	0.8	6.578	A
3	145	306	656	0.220	145	0.3	7.050	A

2028 Forecast Year + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout	9.44	A

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D11	2028 Forecast Year + Dev	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	442	100.000
2		✓	465	100.000
3		✓	310	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		1	2	3
	1	0	373	69
	2	317	0	148
	3	63	247	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.55	9.14	1.2	A
2	0.52	7.67	1.1	A
3	0.54	12.54	1.2	B

Main Results for each time segment

08:00 - 08:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	333	184	943	0.353	331	0.5	5.955	A
2	350	52	1005	0.349	348	0.5	5.554	A
3	233	237	697	0.334	231	0.5	7.749	A

08:15 - 08:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	398	221	919	0.432	397	0.8	6.990	A
2	418	62	998	0.419	417	0.7	6.291	A
3	278	285	669	0.416	277	0.7	9.248	A

08:30 - 08:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	487	270	888	0.548	485	1.2	9.045	A
2	512	76	989	0.518	511	1.1	7.618	A
3	341	348	631	0.540	339	1.2	12.368	B

08:45 - 09:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	487	272	887	0.549	487	1.2	9.142	A
2	512	76	989	0.518	512	1.1	7.665	A
3	341	349	630	0.541	341	1.2	12.537	B

09:00 - 09:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	398	223	918	0.433	399	0.8	7.080	A
2	418	63	998	0.419	419	0.7	6.339	A
3	278	286	668	0.417	280	0.7	9.395	A

09:15 - 09:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	333	187	942	0.354	334	0.6	6.032	A
2	350	52	1004	0.349	351	0.5	5.607	A
3	233	239	696	0.335	234	0.5	7.866	A

2028 Forecast Year + Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Mini-roundabout		Mini-roundabout appears to have unbalanced flows and may behave like a priority junction; treat results with caution. See User Guide for details.[Arms 1 and 2 have 82% of the total flow for the roundabout for one or more time segments]

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	untitled	Mini-roundabout	10.44	B

Junction Network Options

Driving side	Lighting	Road surface	In London
Left	Normal/unknown	Normal/unknown	

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)
D12	2028 Forecast Year + Dev	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
1		✓	354	100.000
2		✓	643	100.000
3		✓	214	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		1	2	3
From	1	0	301	53
	2	405	0	238
	3	53	161	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
1	0.41	6.54	0.7	A
2	0.71	12.50	2.4	B
3	0.41	10.69	0.7	B

Main Results for each time segment

17:00 - 17:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	266	120	984	0.270	265	0.4	5.064	A
2	484	39	1012	0.478	480	0.9	6.855	A
3	161	303	658	0.244	159	0.3	7.205	A

17:15 - 17:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	318	144	969	0.328	317	0.5	5.601	A
2	578	47	1008	0.574	576	1.3	8.481	A
3	192	363	622	0.309	191	0.4	8.360	A

17:30 - 17:45

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	389	176	948	0.410	388	0.7	6.513	A
2	708	58	1001	0.707	704	2.4	12.191	B
3	235	443	573	0.410	234	0.7	10.585	B

17:45 - 18:00

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	389	177	948	0.411	389	0.7	6.536	A
2	708	58	1001	0.707	708	2.4	12.503	B
3	235	446	572	0.411	235	0.7	10.690	B

18:00 - 18:15

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	318	145	968	0.328	319	0.5	5.628	A
2	578	47	1007	0.574	582	1.4	8.713	A
3	192	367	619	0.310	193	0.5	8.460	A

18:15 - 18:30

Arm	Total Demand (PCU/hr)	Circulating flow (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
1	266	121	983	0.271	267	0.4	5.099	A
2	484	40	1012	0.478	486	0.9	6.998	A
3	161	306	656	0.245	161	0.3	7.284	A

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []
© Copyright TRL Limited, 2021

For sales and distribution information, program advice and maintenance, contact TRL:
Tel: +44 (0)1344 770758 email: software@trl.co.uk Web: http://www.trlsoftware.co.uk

The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: Swanmore Rd Middle PW.j9

Path: W:\Projects\10731 TA Portsmouth CC Cabbagefield Row, Havant\2.8 Project Data\C. Misc\Junctions 9 Models\Swanmore Rd Middle PW

Report generation date: 09/07/2021 13:03:04

»2021 Base Year, AM
»2021 Base Year, PM
»2023 Open Year, AM
»2023 Open Year, PM
»2023 Open Year + Dev, AM
»2023 Open Year + Dev, PM
»2028 Forecast Year, AM
»2028 Forecast Year, PM
»2028 Forecast Year + Dev, AM
»2028 Forecast Year + Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2021 Base Year								
Stream B-AC	0.7	12.99	0.41	B	0.6	12.61	0.39	B
Stream C-AB	0.4	5.85	0.22	A	0.4	5.99	0.20	A
2023 Open Year								
Stream B-AC	0.7	13.32	0.42	B	0.7	12.89	0.40	B
Stream C-AB	0.4	5.88	0.23	A	0.4	6.02	0.21	A
2023 Open Year + Dev								
Stream B-AC	0.8	13.80	0.45	B	0.7	13.24	0.42	B
Stream C-AB	0.5	5.99	0.24	A	0.5	6.26	0.24	A
2028 Forecast Year								
Stream B-AC	0.8	14.10	0.44	B	0.7	13.59	0.42	B
Stream C-AB	0.5	5.95	0.24	A	0.4	6.08	0.22	A
2028 Forecast Year + Dev								
Stream B-AC	0.9	14.67	0.47	B	0.8	13.99	0.44	B
Stream C-AB	0.5	6.07	0.26	A	0.5	6.35	0.25	A

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

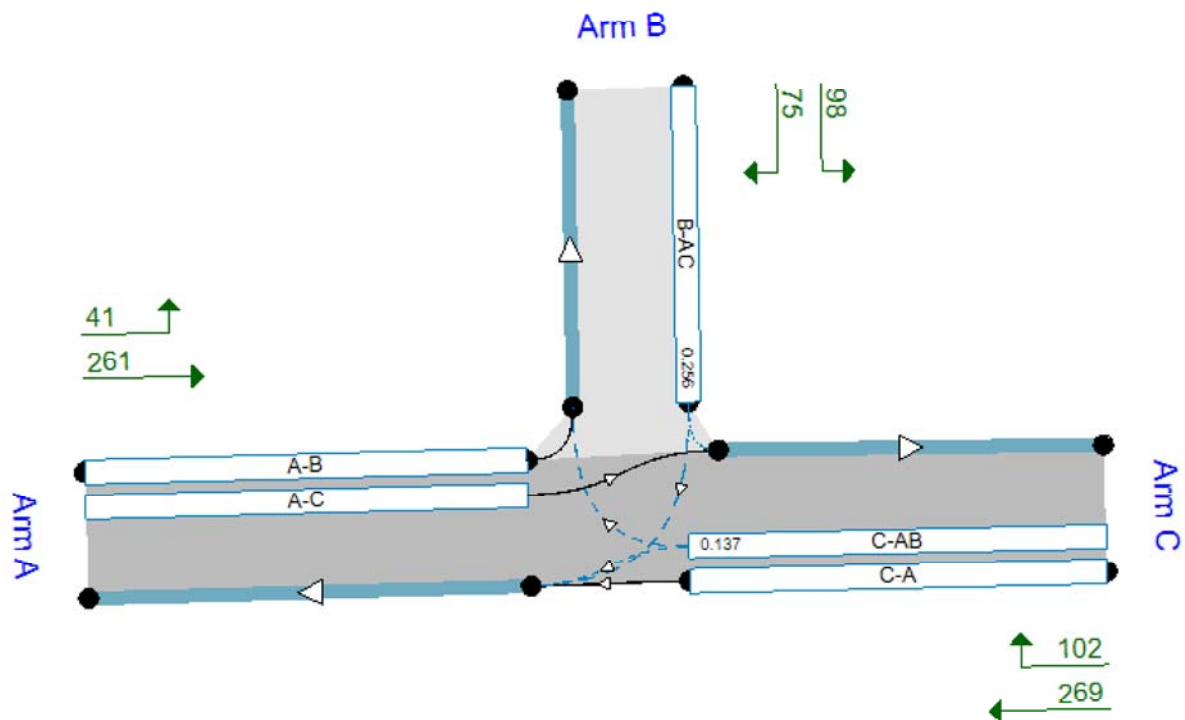
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	23/06/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	GTACIVILS\stevenson
Description	

Units

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



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

The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2021 Base Year	AM	ONE HOUR	08:00	09:30	15
D2	2021 Base Year	PM	ONE HOUR	17:00	18:30	15
D5	2023 Open Year	AM	ONE HOUR	08:00	09:30	15
D6	2023 Open Year	PM	ONE HOUR	17:00	18:30	15
D7	2023 Open Year + Dev	AM	ONE HOUR	08:00	09:30	15
D8	2023 Open Year + Dev	PM	ONE HOUR	17:00	18:30	15
D9	2028 Forecast Year	AM	ONE HOUR	08:00	09:30	15
D10	2028 Forecast Year	PM	ONE HOUR	17:00	18:30	15
D11	2028 Forecast Year + Dev	AM	ONE HOUR	08:00	09:30	15
D12	2028 Forecast Year + Dev	PM	ONE HOUR	17:00	18:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2021 Base Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.71	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Middle Park Way (W)		Major
B	Swanmore Road		Minor
C	Middle Park Way (E)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00			200.0	✓	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	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	3.30	24	34

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	517	0.090	0.228	0.143	0.325
1	B-C	665	0.097	0.246	-	-
1	C-B	690	0.256	0.256	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

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)
D1	2021 Base Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	302	100.000
B		✓	173	100.000
C		✓	371	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A	B	C
	A	0	41	261
	B	75	0	98
From	C	269	102	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.41	12.99	0.7	B
C-AB	0.22	5.85	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	130	508	0.256	129	0.3	9.453	A
C-AB	105	763	0.137	104	0.2	5.499	A
C-A	175			175			
A-B	31			31			
A-C	196			196			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	156	491	0.317	155	0.5	10.692	B
C-AB	133	779	0.171	133	0.3	5.622	A
C-A	200			200			
A-B	37			37			
A-C	234			234			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	191	468	0.408	190	0.7	12.911	B
C-AB	179	802	0.223	178	0.4	5.834	A
C-A	230			230			
A-B	45			45			
A-C	287			287			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	191	468	0.408	191	0.7	12.991	B
C-AB	179	802	0.223	179	0.4	5.851	A
C-A	230			230			
A-B	45			45			

A-C	287			287			
-----	-----	--	--	-----	--	--	--

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	156	491	0.317	156	0.5	10.779	B
C-AB	133	779	0.171	134	0.3	5.648	A
C-A	200			200			
A-B	37			37			
A-C	234			234			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	130	508	0.256	131	0.3	9.553	A
C-AB	105	763	0.137	105	0.2	5.525	A
C-A	174			174			
A-B	31			31			
A-C	196			196			

2021 Base Year, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.38	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D2	2021 Base Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	359	100.000
B		✓	169	100.000
C		✓	339	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	36	323
	B	58	0	111
	C	247	92	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.39	12.61	0.6	B
C-AB	0.20	5.99	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	127	519	0.245	126	0.3	9.300	A
C-AB	92	743	0.124	91	0.2	5.648	A
C-A	163			163			
A-B	27			27			
A-C	243			243			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	152	502	0.303	151	0.4	10.464	B
C-AB	117	755	0.155	117	0.3	5.773	A
C-A	188			188			
A-B	32			32			
A-C	290			290			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	186	477	0.390	185	0.6	12.537	B
C-AB	156	772	0.202	156	0.4	5.980	A
C-A	217			217			
A-B	40			40			
A-C	355			355			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	186	477	0.390	186	0.6	12.606	B
C-AB	157	772	0.203	156	0.4	5.992	A
C-A	217			217			
A-B	40			40			
A-C	355			355			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	152	502	0.303	153	0.5	10.543	B
C-AB	117	755	0.155	118	0.3	5.791	A
C-A	187			187			
A-B	32			32			
A-C	290			290			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	127	519	0.245	128	0.3	9.389	A
C-AB	92	743	0.124	93	0.2	5.667	A
C-A	163			163			
A-B	27			27			
A-C	243			243			

2023 Open Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.79	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D5	2023 Open Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	308	100.000
B		✓	177	100.000
C		✓	379	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	42	266
	B	77	0	100
	C	275	104	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.42	13.32	0.7	B
C-AB	0.23	5.88	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	133	507	0.263	132	0.4	9.570	A
C-AB	108	765	0.141	107	0.2	5.509	A
C-A	178			178			
A-B	32			32			
A-C	200			200			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	159	489	0.325	158	0.5	10.869	B
C-AB	137	781	0.176	137	0.3	5.639	A
C-A	203			203			
A-B	38			38			
A-C	239			239			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	195	465	0.419	194	0.7	13.231	B
C-AB	184	804	0.229	184	0.4	5.865	A
C-A	233			233			
A-B	46			46			
A-C	293			293			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	195	465	0.419	195	0.7	13.321	B
C-AB	185	805	0.229	185	0.4	5.880	A
C-A	233			233			
A-B	46			46			
A-C	293			293			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	159	489	0.325	160	0.5	10.964	B
C-AB	137	781	0.176	138	0.3	5.665	A
C-A	203			203			
A-B	38			38			
A-C	239			239			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	133	506	0.263	134	0.4	9.672	A
C-AB	108	765	0.141	108	0.2	5.537	A
C-A	177			177			
A-B	32			32			
A-C	200			200			

2023 Open Year, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.45	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D6	2023 Open Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	366	100.000
B		✓	172	100.000
C		✓	346	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	37	329
	B	59	0	114
	C	252	94	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.40	12.89	0.7	B
C-AB	0.21	6.02	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	130	517	0.251	128	0.3	9.405	A
C-AB	95	744	0.127	94	0.2	5.659	A
C-A	166			166			
A-B	28			28			
A-C	248			248			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	155	500	0.310	155	0.5	10.626	B
C-AB	120	756	0.159	120	0.3	5.792	A
C-A	191			191			
A-B	33			33			
A-C	296			296			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	190	474	0.400	189	0.7	12.818	B
C-AB	161	774	0.208	161	0.4	6.008	A
C-A	220			220			
A-B	41			41			
A-C	362			362			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	190	474	0.400	190	0.7	12.894	B
C-AB	161	774	0.208	161	0.4	6.018	A
C-A	220			220			
A-B	41			41			
A-C	362			362			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	155	499	0.310	156	0.5	10.707	B
C-AB	121	757	0.159	121	0.3	5.809	A
C-A	190			190			
A-B	33			33			
A-C	296			296			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	130	517	0.251	130	0.3	9.497	A
C-AB	95	744	0.128	95	0.2	5.679	A
C-A	166			166			
A-B	28			28			
A-C	248			248			

2023 Open Year + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.09	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D7	2023 Open Year + Dev	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	308	100.000
B		✓	190	100.000
C		✓	385	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	42	266
	B	77	0	114
	C	275	110	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.45	13.80	0.8	B
C-AB	0.24	5.99	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	143	512	0.280	142	0.4	9.688	A
C-AB	114	765	0.149	113	0.2	5.563	A
C-A	176			176			
A-B	32			32			
A-C	200			200			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	171	495	0.346	171	0.5	11.090	B
C-AB	145	781	0.186	145	0.3	5.712	A
C-A	201			201			
A-B	38			38			
A-C	239			239			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	210	470	0.445	208	0.8	13.690	B
C-AB	195	804	0.243	195	0.5	5.970	A
C-A	229			229			
A-B	46			46			
A-C	293			293			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	210	470	0.446	209	0.8	13.797	B
C-AB	196	805	0.243	196	0.5	5.989	A
C-A	228			228			
A-B	46			46			
A-C	293			293			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	171	494	0.346	172	0.5	11.204	B
C-AB	146	781	0.186	146	0.3	5.739	A
C-A	200			200			
A-B	38			38			
A-C	239			239			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	143	512	0.280	144	0.4	9.805	A
C-AB	114	765	0.149	115	0.2	5.590	A
C-A	176			176			
A-B	32			32			
A-C	200			200			

2023 Open Year + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.71	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D8	2023 Open Year + Dev	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	366	100.000
B		✓	179	100.000
C		✓	360	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	37	329
	B	59	0	120
	C	252	107	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.42	13.24	0.7	B
C-AB	0.24	6.26	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	135	518	0.260	133	0.4	9.507	A
C-AB	108	744	0.146	107	0.2	5.779	A
C-A	162			162			
A-B	28			28			
A-C	248			248			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	161	500	0.322	161	0.5	10.797	B
C-AB	138	756	0.182	138	0.3	5.955	A
C-A	185			185			
A-B	33			33			
A-C	296			296			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	197	475	0.416	196	0.7	13.154	B
C-AB	185	774	0.238	184	0.5	6.246	A
C-A	211			211			
A-B	41			41			
A-C	362			362			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	197	474	0.416	197	0.7	13.240	B
C-AB	185	774	0.239	185	0.5	6.258	A
C-A	211			211			
A-B	41			41			
A-C	362			362			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	161	500	0.322	162	0.5	10.892	B
C-AB	138	757	0.183	139	0.3	5.976	A
C-A	185			185			
A-B	33			33			
A-C	296			296			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	135	518	0.260	135	0.4	9.605	A
C-AB	109	744	0.146	109	0.2	5.803	A
C-A	162			162			
A-B	28			28			
A-C	248			248			

2028 Forecast Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.98	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D9	2028 Forecast Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	322	100.000
B		✓	185	100.000
C		✓	396	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	44	278
	B	80	0	105
	C	287	109	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.44	14.10	0.8	B
C-AB	0.24	5.95	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	139	502	0.277	138	0.4	9.827	A
C-AB	114	769	0.148	113	0.2	5.534	A
C-A	184			184			
A-B	33			33			
A-C	210			210			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	166	484	0.343	166	0.5	11.277	B
C-AB	146	786	0.186	146	0.3	5.681	A
C-A	210			210			
A-B	40			40			
A-C	250			250			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	203	459	0.444	202	0.8	13.986	B
C-AB	197	810	0.243	197	0.5	5.933	A
C-A	239			239			
A-B	48			48			
A-C	306			306			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	203	459	0.444	203	0.8	14.099	B
C-AB	197	810	0.244	197	0.5	5.953	A
C-A	239			239			
A-B	48			48			
A-C	306			306			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	166	484	0.343	167	0.5	11.393	B
C-AB	146	786	0.186	147	0.3	5.706	A
C-A	210			210			
A-B	40			40			
A-C	250			250			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	139	502	0.277	140	0.4	9.946	A
C-AB	114	769	0.149	115	0.2	5.562	A
C-A	184			184			
A-B	33			33			
A-C	210			210			

2028 Forecast Year, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.61	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D10	2028 Forecast Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	382	100.000
B		✓	180	100.000
C		✓	361	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	38	344
	B	62	0	119
	C	263	98	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.42	13.59	0.7	B
C-AB	0.22	6.08	0.4	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	136	513	0.264	134	0.4	9.639	A
C-AB	100	747	0.134	99	0.2	5.684	A
C-A	172			172			
A-B	29			29			
A-C	259			259			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	162	495	0.327	161	0.5	10.976	B
C-AB	128	760	0.168	128	0.3	5.827	A
C-A	197			197			
A-B	35			35			
A-C	309			309			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	198	468	0.423	197	0.7	13.490	B
C-AB	172	779	0.221	171	0.4	6.070	A
C-A	226			226			
A-B	42			42			
A-C	378			378			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	198	468	0.423	198	0.7	13.587	B
C-AB	172	779	0.221	172	0.4	6.085	A
C-A	225			225			
A-B	42			42			
A-C	378			378			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	162	495	0.327	163	0.5	11.096	B
C-AB	128	760	0.169	129	0.3	5.846	A
C-A	197			197			
A-B	35			35			
A-C	309			309			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	136	513	0.264	136	0.4	9.746	A
C-AB	100	747	0.134	101	0.2	5.707	A
C-A	171			171			
A-B	29			29			
A-C	259			259			

2028 Forecast Year + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.32	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D11	2028 Forecast Year + Dev	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	322	100.000
B		✓	199	100.000
C		✓	402	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	44	278
	B	80	0	119
	C	287	115	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.47	14.67	0.9	B
C-AB	0.26	6.07	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	150	508	0.295	148	0.4	9.965	A
C-AB	121	768	0.157	120	0.3	5.593	A
C-A	182			182			
A-B	33			33			
A-C	210			210			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	179	490	0.365	178	0.6	11.534	B
C-AB	155	786	0.197	154	0.3	5.757	A
C-A	207			207			
A-B	40			40			
A-C	250			250			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	219	464	0.472	218	0.9	14.535	B
C-AB	209	810	0.258	208	0.5	6.049	A
C-A	234			234			
A-B	48			48			
A-C	306			306			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	219	464	0.472	219	0.9	14.672	B
C-AB	209	810	0.258	209	0.5	6.068	A
C-A	234			234			
A-B	48			48			
A-C	306			306			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	179	490	0.365	180	0.6	11.673	B
C-AB	155	786	0.197	156	0.4	5.789	A
C-A	207			207			
A-B	40			40			
A-C	250			250			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	150	508	0.295	150	0.4	10.098	B
C-AB	121	769	0.158	122	0.3	5.623	A
C-A	182			182			
A-B	33			33			
A-C	210			210			

2028 Forecast Year + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	3.89	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D12	2028 Forecast Year + Dev	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	382	100.000
B		✓	187	100.000
C		✓	375	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	38	344
	B	62	0	126
	C	263	112	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.44	13.99	0.8	B
C-AB	0.25	6.35	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	141	514	0.274	139	0.4	9.755	A
C-AB	115	747	0.154	114	0.2	5.814	A
C-A	168			168			
A-B	29			29			
A-C	259			259			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	168	495	0.340	168	0.5	11.191	B
C-AB	147	760	0.193	146	0.3	6.004	A
C-A	191			191			
A-B	35			35			
A-C	309			309			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	206	468	0.440	205	0.8	13.887	B
C-AB	197	779	0.253	196	0.5	6.333	A
C-A	216			216			
A-B	42			42			
A-C	378			378			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	206	468	0.440	206	0.8	13.994	B
C-AB	197	779	0.253	197	0.5	6.350	A
C-A	216			216			
A-B	42			42			
A-C	378			378			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	168	495	0.340	169	0.5	11.306	B
C-AB	147	760	0.193	147	0.3	6.029	A
C-A	191			191			
A-B	35			35			
A-C	309			309			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	141	514	0.274	141	0.4	9.867	A
C-AB	115	747	0.154	116	0.3	5.839	A
C-A	167			167			
A-B	29			29			
A-C	259			259			

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []
© Copyright TRL Limited, 2021

For sales and distribution information, program advice and maintenance, contact TRL:
Tel: +44 (0)1344 770758 email: software@trl.co.uk Web: http://www.trlsoftware.co.uk

The users of this computer program for the solution of an engineering problem are in no way relieved of their responsibility for the correctness of the solution

Filename: Dunsbury Way Middle PW.j9

Path: W:\Projects\10731 TA Portsmouth CC Cabbagefield Row, Havant\2.8 Project Data\C. Misc\Junctions 9 Models\Dunsbury Way Middle PW

Report generation date: 09/07/2021 12:53:35

»2021 Base Year, AM
»2021 Base Year, PM
»2023 Open Year, AM
»2023 Open Year, PM
»2023 Open Year + Dev, AM
»2023 Open Year + Dev, PM
»2028 Forecast Year, AM
»2028 Forecast Year, PM
»2028 Forecast Year + Dev, AM
»2028 Forecast Year + Dev, PM

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2021 Base Year								
Stream B-AC	0.7	13.53	0.42	B	0.8	14.08	0.45	B
Stream C-AB	0.5	6.85	0.27	A	0.8	7.63	0.37	A
2023 Open Year								
Stream B-AC	0.7	13.88	0.43	B	0.9	14.46	0.46	B
Stream C-AB	0.6	6.90	0.28	A	0.9	7.72	0.38	A
2023 Open Year + Dev								
Stream B-AC	0.8	14.11	0.43	B	0.9	14.85	0.47	B
Stream C-AB	0.6	6.98	0.30	A	0.9	7.82	0.39	A
2028 Forecast Year								
Stream B-AC	0.8	14.70	0.45	B	1.0	15.40	0.49	C
Stream C-AB	0.6	7.02	0.30	A	1.0	7.96	0.40	A
2028 Forecast Year + Dev								
Stream B-AC	0.9	14.98	0.46	B	1.0	15.86	0.50	C
Stream C-AB	0.7	7.11	0.31	A	1.0	8.07	0.41	A

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

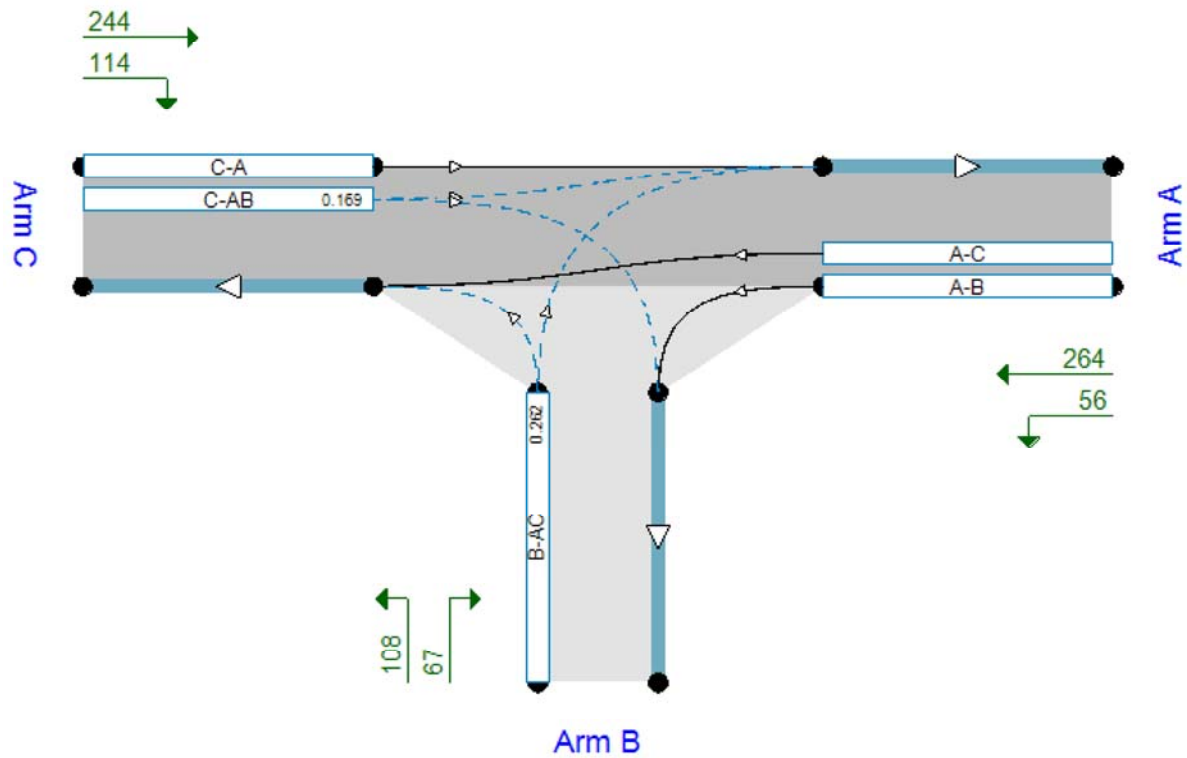
File summary

File Description

Title	(untitled)
Location	
Site number	
Date	23/06/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	GTACIVILS\stevenson
Description	

Units

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



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

The junction diagram reflects the last run of Junctions.

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
		0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2021 Base Year	AM	ONE HOUR	08:00	09:30	15
D2	2021 Base Year	PM	ONE HOUR	17:00	18:30	15
D5	2023 Open Year	AM	ONE HOUR	08:00	09:30	15
D6	2023 Open Year	PM	ONE HOUR	17:00	18:30	15
D7	2023 Open Year + Dev	AM	ONE HOUR	08:00	09:30	15
D8	2023 Open Year + Dev	PM	ONE HOUR	17:00	18:30	15
D9	2028 Forecast Year	AM	ONE HOUR	08:00	09:30	15
D10	2028 Forecast Year	PM	ONE HOUR	17:00	18:30	15
D11	2028 Forecast Year + Dev	AM	ONE HOUR	08:00	09:30	15
D12	2028 Forecast Year + Dev	PM	ONE HOUR	17:00	18:30	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2021 Base Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.14	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Middle Park Way (E)		Major
B	Dunsbury Way		Minor
C	Middle Park Way (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00			85.0	✓	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	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	2.80	43	53

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	507	0.088	0.223	0.141	0.319
1	B-C	644	0.094	0.239	-	-
1	C-B	623	0.231	0.231	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

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)
D1	2021 Base Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	319	100.000
B		✓	175	100.000
C		✓	359	100.000

Origin-Destination Data

Demand (PCU/hr)

From	To			
		A	B	C
	A	0	56	264
	B	67	0	108
	C	244	114	0

Vehicle Mix

Heavy Vehicle Percentages

From	To			
		A	B	C
	A	0	2	3
	B	6	0	0
	C	0	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.42	13.53	0.7	B
C-AB	0.27	6.85	0.5	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	132	504	0.262	130	0.4	9.813	A
C-AB	117	694	0.169	116	0.3	6.274	A
C-A	153			153			
A-B	42			42			
A-C	199			199			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	158	488	0.323	157	0.5	11.111	B
C-AB	149	709	0.211	149	0.4	6.484	A
C-A	173			173			
A-B	50			50			
A-C	237			237			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	193	465	0.415	192	0.7	13.441	B
C-AB	200	730	0.274	199	0.5	6.834	A
C-A	195			195			
A-B	61			61			
A-C	290			290			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	193	465	0.415	193	0.7	13.533	B
C-AB	200	730	0.274	200	0.5	6.847	A
C-A	195			195			
A-B	61			61			

A-C	290			290			
-----	-----	--	--	-----	--	--	--

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	158	488	0.323	158	0.5	11.210	B
C-AB	150	709	0.211	150	0.4	6.503	A
C-A	173			173			
A-B	50			50			
A-C	237			237			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	132	504	0.262	132	0.4	9.921	A
C-AB	118	694	0.169	118	0.3	6.307	A
C-A	152			152			
A-B	42			42			
A-C	199			199			

2021 Base Year, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.82	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D2	2021 Base Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	312	100.000
B		✓	195	100.000
C		✓	434	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	63	249
	B	58	0	137
	C	284	149	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	2
	B	5	0	2
	C	3	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.45	14.08	0.8	B
C-AB	0.37	7.63	0.8	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	147	517	0.283	145	0.4	9.902	A
C-AB	161	715	0.224	159	0.4	6.565	A
C-A	166			166			
A-B	47			47			
A-C	188			188			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	175	501	0.349	174	0.5	11.326	B
C-AB	207	735	0.281	206	0.5	6.922	A
C-A	183			183			
A-B	57			57			
A-C	224			224			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	214	477	0.449	213	0.8	13.959	B
C-AB	280	763	0.367	279	0.8	7.585	A
C-A	197			197			
A-B	69			69			
A-C	275			275			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	214	477	0.449	214	0.8	14.077	B
C-AB	281	763	0.368	281	0.8	7.626	A
C-A	197			197			
A-B	69			69			
A-C	275			275			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	175	501	0.350	176	0.6	11.450	B
C-AB	207	736	0.282	208	0.6	6.980	A
C-A	183			183			
A-B	57			57			
A-C	224			224			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	147	517	0.283	147	0.4	10.027	B
C-AB	161	716	0.225	162	0.4	6.622	A
C-A	165			165			
A-B	47			47			
A-C	188			188			

2023 Open Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.23	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D5	2023 Open Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	326	100.000
B		✓	179	100.000
C		✓	366	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	57	269
	B	68	0	111
	C	249	117	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	3
	B	6	0	0
	C	0	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.43	13.88	0.7	B
C-AB	0.28	6.90	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	135	502	0.268	133	0.4	9.930	A
C-AB	120	695	0.173	119	0.3	6.291	A
C-A	155			155			
A-B	43			43			
A-C	203			203			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	161	486	0.331	160	0.5	11.294	B
C-AB	154	711	0.216	153	0.4	6.511	A
C-A	175			175			
A-B	51			51			
A-C	242			242			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	197	462	0.426	196	0.7	13.773	B
C-AB	206	733	0.282	206	0.6	6.882	A
C-A	197			197			
A-B	63			63			
A-C	297			297			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	197	462	0.426	197	0.7	13.876	B
C-AB	207	733	0.282	207	0.6	6.899	A
C-A	197			197			
A-B	63			63			
A-C	297			297			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	161	485	0.331	162	0.5	11.403	B
C-AB	154	711	0.217	155	0.4	6.529	A
C-A	175			175			
A-B	51			51			
A-C	242			242			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	135	502	0.268	135	0.4	10.044	B
C-AB	121	695	0.174	121	0.3	6.323	A
C-A	155			155			
A-B	43			43			
A-C	203			203			

2023 Open Year, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.94	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D6	2023 Open Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	319	100.000
B		✓	199	100.000
C		✓	443	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	64	254
	B	59	0	140
	C	290	152	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	2
	B	5	0	2
	C	3	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.46	14.46	0.9	B
C-AB	0.38	7.72	0.9	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	150	516	0.290	148	0.4	10.026	B
C-AB	165	717	0.230	163	0.4	6.594	A
C-A	168			168			
A-B	48			48			
A-C	192			192			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	179	499	0.358	178	0.6	11.524	B
C-AB	213	738	0.288	212	0.6	6.970	A
C-A	185			185			
A-B	58			58			
A-C	229			229			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	219	475	0.461	218	0.9	14.331	B
C-AB	289	766	0.377	288	0.9	7.673	A
C-A	198			198			
A-B	71			71			
A-C	280			280			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	219	475	0.461	219	0.9	14.465	B
C-AB	290	766	0.378	290	0.9	7.718	A
C-A	198			198			
A-B	71			71			
A-C	280			280			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	179	499	0.358	180	0.6	11.658	B
C-AB	213	738	0.289	214	0.6	7.032	A
C-A	185			185			
A-B	58			58			
A-C	229			229			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	150	515	0.290	150	0.4	10.158	B
C-AB	166	718	0.231	166	0.4	6.656	A
C-A	168			168			
A-B	48			48			
A-C	192			192			

2023 Open Year + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.31	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D7	2023 Open Year + Dev	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	330	100.000
B		✓	181	100.000
C		✓	380	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	57	273
	B	68	0	113
	C	258	122	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	3
	B	6	0	0
	C	0	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.43	14.11	0.8	B
C-AB	0.30	6.98	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	136	501	0.272	135	0.4	9.998	A
C-AB	127	699	0.181	126	0.3	6.316	A
C-A	159			159			
A-B	43			43			
A-C	206			206			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	163	484	0.336	162	0.5	11.408	B
C-AB	162	715	0.227	162	0.4	6.550	A
C-A	179			179			
A-B	51			51			
A-C	246			246			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	199	460	0.433	198	0.8	13.998	B
C-AB	218	739	0.295	217	0.6	6.960	A
C-A	200			200			
A-B	63			63			
A-C	301			301			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	199	460	0.433	199	0.8	14.106	B
C-AB	218	739	0.296	218	0.6	6.976	A
C-A	200			200			
A-B	63			63			
A-C	301			301			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	163	484	0.336	164	0.5	11.522	B
C-AB	162	716	0.227	163	0.4	6.573	A
C-A	179			179			
A-B	51			51			
A-C	246			246			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	136	501	0.272	137	0.4	10.119	B
C-AB	127	699	0.182	128	0.3	6.349	A
C-A	159			159			
A-B	43			43			
A-C	206			206			

2023 Open Year + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.06	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D8	2023 Open Year + Dev	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	327	100.000
B		✓	204	100.000
C		✓	449	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	64	263
	B	59	0	145
	C	295	155	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	2
	B	5	0	2
	C	3	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.47	14.85	0.9	B
C-AB	0.39	7.82	0.9	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	153	515	0.297	151	0.4	10.134	B
C-AB	169	718	0.235	167	0.4	6.625	A
C-A	170			170			
A-B	48			48			
A-C	198			198			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	183	498	0.367	182	0.6	11.707	B
C-AB	218	739	0.295	217	0.6	7.022	A
C-A	186			186			
A-B	58			58			
A-C	237			237			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	224	473	0.473	223	0.9	14.701	B
C-AB	296	768	0.386	295	0.9	7.769	A
C-A	198			198			
A-B	71			71			
A-C	290			290			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	224	473	0.473	224	0.9	14.847	B
C-AB	297	768	0.387	297	0.9	7.819	A
C-A	198			198			
A-B	71			71			
A-C	290			290			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	183	498	0.368	184	0.6	11.858	B
C-AB	218	739	0.295	219	0.6	7.087	A
C-A	186			186			
A-B	58			58			
A-C	237			237			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	153	515	0.298	154	0.4	10.277	B
C-AB	169	719	0.236	170	0.4	6.688	A
C-A	169			169			
A-B	48			48			
A-C	198			198			

2028 Forecast Year, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.45	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D9	2028 Forecast Year	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	341	100.000
B		✓	187	100.000
C		✓	383	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	59	282
	B	72	0	116
	C	261	122	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	3
	B	6	0	0
	C	0	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.45	14.70	0.8	B
C-AB	0.30	7.02	0.6	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	141	498	0.282	139	0.4	10.199	B
C-AB	128	699	0.183	127	0.3	6.332	A
C-A	161			161			
A-B	45			45			
A-C	212			212			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	168	481	0.350	168	0.5	11.721	B
C-AB	164	715	0.229	163	0.4	6.573	A
C-A	181			181			
A-B	53			53			
A-C	253			253			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	206	456	0.451	205	0.8	14.569	B
C-AB	221	739	0.299	220	0.6	6.997	A
C-A	201			201			
A-B	65			65			
A-C	310			310			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	206	456	0.451	206	0.8	14.699	B
C-AB	221	739	0.299	221	0.6	7.016	A
C-A	201			201			
A-B	65			65			
A-C	310			310			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	168	481	0.350	169	0.6	11.855	B
C-AB	164	716	0.229	165	0.4	6.599	A
C-A	180			180			
A-B	53			53			
A-C	253			253			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	141	498	0.283	141	0.4	10.332	B
C-AB	128	699	0.184	129	0.3	6.367	A
C-A	160			160			
A-B	45			45			
A-C	212			212			

2028 Forecast Year, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.24	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D10	2028 Forecast Year	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	333	100.000
B		✓	208	100.000
C		✓	462	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	67	266
	B	62	0	146
	C	303	159	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	2
	B	5	0	2
	C	3	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.49	15.40	1.0	C
C-AB	0.40	7.96	1.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	156	512	0.305	154	0.4	10.310	B
C-AB	175	722	0.243	173	0.4	6.663	A
C-A	173			173			
A-B	50			50			
A-C	200			200			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	187	494	0.378	186	0.6	11.987	B
C-AB	227	743	0.305	226	0.6	7.087	A
C-A	189			189			
A-B	60			60			
A-C	239			239			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	228	469	0.487	227	0.9	15.231	C
C-AB	310	773	0.401	308	1.0	7.901	A
C-A	199			199			
A-B	74			74			
A-C	292			292			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	228	469	0.487	228	1.0	15.403	C
C-AB	310	774	0.401	310	1.0	7.956	A
C-A	199			199			
A-B	74			74			
A-C	292			292			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	187	494	0.378	188	0.6	12.152	B
C-AB	227	744	0.306	229	0.6	7.156	A
C-A	188			188			
A-B	60			60			
A-C	239			239			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	156	512	0.305	157	0.5	10.464	B
C-AB	176	722	0.244	177	0.5	6.732	A
C-A	172			172			
A-B	50			50			
A-C	200			200			

2028 Forecast Year + Dev, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	4.55	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D11	2028 Forecast Year + Dev	AM	ONE HOUR	08:00	09:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	345	100.000
B		✓	189	100.000
C		✓	397	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	59	286
	B	72	0	118
	C	270	127	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	3
	B	6	0	0
	C	0	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.46	14.98	0.9	B
C-AB	0.31	7.11	0.7	A
C-A				
A-B				
A-C				

Main Results for each time segment

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	143	497	0.287	141	0.4	10.276	B
C-AB	135	703	0.192	133	0.3	6.360	A
C-A	164			164			
A-B	45			45			
A-C	215			215			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	170	479	0.355	170	0.6	11.852	B
C-AB	173	720	0.240	172	0.4	6.625	A
C-A	184			184			
A-B	53			53			
A-C	257			257			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	208	454	0.459	207	0.8	14.835	B
C-AB	234	745	0.314	233	0.7	7.091	A
C-A	203			203			
A-B	65			65			
A-C	315			315			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	208	454	0.459	208	0.9	14.977	B
C-AB	234	745	0.314	234	0.7	7.112	A
C-A	203			203			
A-B	65			65			
A-C	315			315			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	170	479	0.355	171	0.6	11.996	B
C-AB	173	721	0.240	174	0.5	6.649	A
C-A	184			184			
A-B	53			53			
A-C	257			257			

09:15 - 09:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	143	497	0.287	143	0.4	10.414	B
C-AB	135	703	0.192	136	0.3	6.397	A
C-A	164			164			
A-B	45			45			
A-C	215			215			

2028 Forecast Year + Dev, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.38	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

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)
D12	2028 Forecast Year + Dev	PM	ONE HOUR	17:00	18:30	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A		✓	342	100.000
B		✓	213	100.000
C		✓	469	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	67	275
	B	62	0	151
	C	308	162	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	2
	B	5	0	2
	C	3	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS
B-AC	0.50	15.86	1.0	C
C-AB	0.41	8.07	1.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	160	511	0.313	158	0.5	10.431	B
C-AB	179	723	0.248	177	0.4	6.696	A
C-A	174			174			
A-B	50			50			
A-C	207			207			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	191	493	0.387	190	0.6	12.198	B
C-AB	232	744	0.312	231	0.6	7.144	A
C-A	190			190			
A-B	60			60			
A-C	247			247			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	234	467	0.501	233	1.0	15.669	C
C-AB	318	775	0.410	316	1.0	8.007	A
C-A	199			199			
A-B	74			74			
A-C	303			303			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	234	467	0.501	234	1.0	15.863	C
C-AB	318	775	0.411	318	1.0	8.067	A
C-A	198			198			
A-B	74			74			
A-C	303			303			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	191	493	0.388	192	0.7	12.381	B
C-AB	233	745	0.312	234	0.7	7.216	A
C-A	189			189			
A-B	60			60			
A-C	247			247			

18:15 - 18:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-AC	160	511	0.313	161	0.5	10.594	B
C-AB	180	723	0.249	181	0.5	6.767	A
C-A	173			173			
A-B	50			50			
A-C	207			207			