

Junctions 10
PICADY 10 - Priority Intersection Module
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Filename: Charlotte Ave Site Access Picady.j10
 Path: C:\Users\TCatton\Desktop\Bicester
 Report generation date: 30/05/2023 15:57:34

- »2031 DM, AM
- »2031 DM, PM
- »2031 DS, AM
- »2031 DS, PM
- »2031 Sensitivity Test 1, AM
- »2031 Sensitivity Test 1, PM
- »2031 Sensitivity Test 2, AM
- »2031 Sensitivity Test 2, PM

Summary of junction performance

	AM					PM				
	Set ID	Queue (PCU)	Delay (s)	RFC	LOS	Set ID	Queue (PCU)	Delay (s)	RFC	LOS
2031 DM										
Stream B-C	D1	0.0	8.73	0.01	A	D2	0.0	9.79	0.01	A
Stream B-A		1.1	23.08	0.53	C		1.2	24.37	0.54	C
Stream C-AB		0.1	7.22	0.08	A		0.0	7.11	0.01	A
2031 DS										
Stream B-C	D3	0.1	32.77	0.13	D	D4	0.1	16.94	0.05	C
Stream B-A		5.2	79.67	0.87	F		3.1	56.10	0.77	F
Stream C-AB		0.1	7.61	0.09	A		0.0	7.89	0.03	A
2031 Sensitivity Test 1										
Stream B-C	D5	0.5	98.92	0.37	F	D6	0.1	20.55	0.07	C
Stream B-A		6.6	95.33	0.91	F		3.7	65.13	0.81	F
Stream C-AB		0.1	7.59	0.10	A		0.0	8.10	0.04	A
2031 Sensitivity Test 2										
Stream B-C	D7	0.1	17.94	0.08	C	D8	0.0	14.49	0.04	B
Stream B-A		3.9	59.79	0.81	F		2.6	47.50	0.73	E
Stream C-AB		0.1	7.50	0.09	A		0.0	7.87	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	11/02/2021
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	VTP\Cecilia
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

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	2031 DM	AM	ONE HOUR	07:45	09:15	15
D2	2031 DM	PM	ONE HOUR	16:45	18:15	15
D3	2031 DS	AM	ONE HOUR	07:45	09:15	15
D4	2031 DS	PM	ONE HOUR	16:45	18:15	15
D5	2031 Sensitivity Test 1	AM	ONE HOUR	07:45	09:15	15
D6	2031 Sensitivity Test 1	PM	ONE HOUR	16:45	18:15	15
D7	2031 Sensitivity Test 2	AM	ONE HOUR	07:45	09:15	15
D8	2031 Sensitivity Test 2	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2031 DM, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.74	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.74	A

Arms

Arms

Arm	Name	Description	Arm type
A	B4100 South		Major
B	Charlotte Avenue		Minor
C	B4100 North		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Width of kerbed central reserve (m)	Has right-turn storage	Width for right-turn storage (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - B4100 North	9.80	✓	4.02	✓	4.14	208.0	✓	11.00

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

Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Charlotte Avenue	One lane plus flare	10.00	9.72	6.29	4.70	4.45	✓	3.00	250	217

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
B-A	873	0.122	0.308	0.194	0.440
B-C	701	0.090	0.227	-	-
C-B	841	0.272	0.272	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2031 DM	AM	ONE HOUR	07:45	09:15	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 - B4100 South		✓	997	100.000
B - Charlotte Avenue		✓	165	100.000
C - B4100 North		✓	1170	100.000

Origin-Destination Data

Demand (PCU/hr)

	To		
	A - B4100 South	B - Charlotte Avenue	C - B4100 North
From			
A - B4100 South	0	325	672
B - Charlotte Avenue	163	0	2
C - B4100 North	1130	40	0

Vehicle Mix

Heavy Vehicle Percentages

	To		
	A - B4100 South	B - Charlotte Avenue	C - B4100 North
From			
A - B4100 South	0	0	5
B - Charlotte Avenue	4	0	0
C - B4100 North	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.01	8.73	0.0	A
B-A	0.53	23.08	1.1	C
C-AB	0.08	7.22	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	530	0.003	1	0.0	6.807	A
B-A	123	510	0.241	121	0.3	9.614	A
C-AB	30	637	0.047	30	0.0	5.930	A
C-A	851			851			
A-B	245			245			
A-C	506			506			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	491	0.004	2	0.0	7.362	A
B-A	147	439	0.334	146	0.5	12.738	B
C-AB	36	597	0.060	36	0.1	6.412	A
C-A	1016			1016			
A-B	292			292			
A-C	604			604			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	416	0.005	2	0.0	8.689	A
B-A	179	341	0.526	177	1.1	22.488	C
C-AB	44	542	0.081	44	0.1	7.221	A
C-A	1244			1244			
A-B	358			358			
A-C	740			740			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	414	0.005	2	0.0	8.732	A
B-A	179	341	0.526	179	1.1	23.079	C
C-AB	44	542	0.081	44	0.1	7.221	A
C-A	1244			1244			
A-B	358			358			
A-C	740			740			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	489	0.004	2	0.0	7.383	A
B-A	147	439	0.334	149	0.5	13.014	B
C-AB	36	597	0.060	36	0.1	6.417	A
C-A	1016			1016			
A-B	292			292			
A-C	604			604			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	2	530	0.003	2	0.0	6.818	A
B-A	123	509	0.241	124	0.3	9.721	A
C-AB	30	637	0.047	30	0.0	5.933	A
C-A	851			851			
A-B	245			245			
A-C	506			506			

2031 DM, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		1.81	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	1.81	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2031 DM	PM	ONE HOUR	16:45	18:15	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 - B4100 South		✓	1099	100.000
B - Charlotte Avenue		✓	166	100.000
C - B4100 North		✓	953	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	175	924
	B - Charlotte Avenue	162	0	4
	C - B4100 North	948	5	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	0	1
	B - Charlotte Avenue	4	0	0
	C - B4100 North	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.01	9.79	0.0	A
B-A	0.54	24.37	1.2	C
C-AB	0.01	7.11	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	3	500	0.006	3	0.0	7.238	A
B-A	122	502	0.243	121	0.3	9.763	A
C-AB	4	616	0.006	4	0.0	5.879	A
C-A	714			714			
A-B	132			132			
A-C	696			696			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	455	0.008	4	0.0	7.969	A
B-A	146	430	0.338	145	0.5	13.051	B
C-AB	4	572	0.008	4	0.0	6.339	A
C-A	852			852			
A-B	157			157			
A-C	831			831			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	374	0.012	4	0.0	9.737	A
B-A	178	331	0.538	176	1.1	23.674	C
C-AB	6	512	0.011	5	0.0	7.107	A
C-A	1044			1044			
A-B	193			193			
A-C	1017			1017			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	372	0.012	4	0.0	9.794	A
B-A	178	331	0.538	178	1.2	24.366	C
C-AB	6	512	0.011	6	0.0	7.107	A
C-A	1044			1044			
A-B	193			193			
A-C	1017			1017			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	4	454	0.008	4	0.0	7.994	A
B-A	146	430	0.338	148	0.5	13.354	B
C-AB	4	572	0.008	5	0.0	6.339	A
C-A	852			852			
A-B	157			157			
A-C	831			831			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	3	500	0.006	3	0.0	7.248	A
B-A	122	502	0.243	123	0.3	9.871	A
C-AB	4	616	0.006	4	0.0	5.881	A
C-A	714			714			
A-B	132			132			
A-C	696			696			

2031 DS, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		7.45	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	7.45	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2031 DS	AM	ONE HOUR	07:45	09:15	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 - B4100 South		✓	1064	100.000
B - Charlotte Avenue		✓	248	100.000
C - B4100 North		✓	1290	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	350	714
	B - Charlotte Avenue	233	0	15
	C - B4100 North	1245	45	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	0	4
	B - Charlotte Avenue	3	0	0
	C - B4100 North	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.13	32.77	0.1	D
B-A	0.87	79.67	5.2	F
C-AB	0.09	7.61	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	506	0.022	11	0.0	7.273	A
B-A	175	476	0.369	173	0.6	12.121	B
C-AB	34	623	0.054	34	0.1	6.107	A
C-A	937			937			
A-B	263			263			
A-C	538			538			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	444	0.030	13	0.0	8.366	A
B-A	209	400	0.524	207	1.1	19.032	C
C-AB	40	581	0.070	40	0.1	6.660	A
C-A	1119			1119			
A-B	315			315			
A-C	642			642			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	17	185	0.089	16	0.1	21.305	C
B-A	257	295	0.871	243	4.5	60.686	F
C-AB	50	522	0.095	49	0.1	7.609	A
C-A	1371			1371			
A-B	385			385			
A-C	786			786			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	17	126	0.131	16	0.1	32.771	D
B-A	257	295	0.871	253	5.2	79.666	F
C-AB	50	522	0.095	50	0.1	7.612	A
C-A	1371			1371			
A-B	385			385			
A-C	786			786			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	428	0.032	14	0.0	8.701	A
B-A	209	400	0.524	226	1.2	23.007	C
C-AB	40	581	0.070	41	0.1	6.666	A
C-A	1119			1119			
A-B	315			315			
A-C	642			642			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	504	0.022	11	0.0	7.306	A
B-A	175	475	0.369	178	0.6	12.494	B
C-AB	34	623	0.054	34	0.1	6.112	A
C-A	937			937			
A-B	263			263			
A-C	538			538			

2031 DS, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		4.59	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	4.59	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2031 DS	PM	ONE HOUR	16:45	18:15	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 - B4100 South		✓	1234	100.000
B - Charlotte Avenue		✓	206	100.000
C - B4100 North		✓	1018	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	225	1009
	B - Charlotte Avenue	196	0	10
	C - B4100 North	1004	14	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	0	1
	B - Charlotte Avenue	3	0	0
	C - B4100 North	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.05	16.94	0.1	C
B-A	0.77	56.10	3.1	F
C-AB	0.03	7.89	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	475	0.016	7	0.0	7.697	A
B-A	148	465	0.317	146	0.5	11.570	B
C-AB	11	588	0.018	10	0.0	6.229	A
C-A	756			756			
A-B	169			169			
A-C	760			760			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	417	0.022	9	0.0	8.819	A
B-A	176	387	0.456	175	0.8	17.408	C
C-AB	13	539	0.023	13	0.0	6.833	A
C-A	903			903			
A-B	202			202			
A-C	907			907			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	246	0.045	11	0.0	15.338	C
B-A	216	278	0.775	208	2.9	47.992	E
C-AB	15	471	0.033	15	0.0	7.893	A
C-A	1105			1105			
A-B	248			248			
A-C	1111			1111			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	223	0.049	11	0.1	16.942	C
B-A	216	278	0.775	215	3.1	56.101	F
C-AB	15	471	0.033	15	0.0	7.893	A
C-A	1105			1105			
A-B	248			248			
A-C	1111			1111			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	411	0.022	9	0.0	8.962	A
B-A	176	387	0.456	185	0.9	19.182	C
C-AB	13	539	0.023	13	0.0	6.837	A
C-A	903			903			
A-B	202			202			
A-C	907			907			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	474	0.016	8	0.0	7.720	A
B-A	148	465	0.317	149	0.5	11.822	B
C-AB	11	588	0.018	11	0.0	6.232	A
C-A	756			756			
A-B	169			169			
A-C	760			760			

2031 Sensitivity Test 1, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		9.70	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	9.70	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2031 Sensitivity Test 1	AM	ONE HOUR	07:45	09:15	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 - B4100 South		✓	1056	100.000
B - Charlotte Avenue		✓	262	100.000
C - B4100 North		✓	1300	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	356	700
	B - Charlotte Avenue	244	0	18
	C - B4100 North	1254	46	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	0	4
	B - Charlotte Avenue	3	0	0
	C - B4100 North	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.37	98.92	0.5	F
B-A	0.91	95.33	6.6	F
C-AB	0.10	7.59	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	14	506	0.027	13	0.0	7.312	A
B-A	184	476	0.386	181	0.6	12.426	B
C-AB	35	625	0.055	34	0.1	6.093	A
C-A	944			944			
A-B	268			268			
A-C	527			527			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	439	0.037	16	0.0	8.512	A
B-A	219	400	0.548	217	1.2	19.924	C
C-AB	41	583	0.071	41	0.1	6.647	A
C-A	1127			1127			
A-B	320			320			
A-C	629			629			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	139	0.143	19	0.2	30.089	D
B-A	269	296	0.909	252	5.4	68.197	F
C-AB	51	525	0.097	51	0.1	7.588	A
C-A	1381			1381			
A-B	392			392			
A-C	771			771			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	20	54	0.369	18	0.5	98.922	F
B-A	269	296	0.908	264	6.6	95.333	F
C-AB	51	525	0.097	51	0.1	7.591	A
C-A	1381			1381			
A-B	392			392			
A-C	771			771			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	16	417	0.039	18	0.0	9.068	A
B-A	219	400	0.548	240	1.3	25.828	D
C-AB	41	583	0.071	41	0.1	6.653	A
C-A	1127			1127			
A-B	320			320			
A-C	629			629			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	14	503	0.027	14	0.0	7.350	A
B-A	184	476	0.386	186	0.7	12.865	B
C-AB	35	625	0.055	35	0.1	6.100	A
C-A	944			944			
A-B	268			268			
A-C	527			527			

2031 Sensitivity Test 1, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.37	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.37	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2031 Sensitivity Test 1	PM	ONE HOUR	16:45	18:15	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 - B4100 South		✓	1262	100.000
B - Charlotte Avenue		✓	211	100.000
C - B4100 North		✓	1014	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	238	1024
	B - Charlotte Avenue	199	0	12
	C - B4100 North	997	17	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	0	1
	B - Charlotte Avenue	3	0	0
	C - B4100 North	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.07	20.55	0.1	C
B-A	0.81	65.13	3.7	F
C-AB	0.04	8.10	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	471	0.019	9	0.0	7.784	A
B-A	150	460	0.326	148	0.5	11.840	B
C-AB	13	583	0.022	13	0.0	6.317	A
C-A	751			751			
A-B	179			179			
A-C	771			771			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	411	0.026	11	0.0	8.989	A
B-A	179	381	0.470	177	0.9	18.127	C
C-AB	15	532	0.029	15	0.0	6.959	A
C-A	896			896			
A-B	214			214			
A-C	921			921			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	219	0.060	13	0.1	17.496	C
B-A	219	271	0.807	210	3.3	53.640	F
C-AB	19	463	0.040	19	0.0	8.099	A
C-A	1098			1098			
A-B	262			262			
A-C	1127			1127			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	188	0.070	13	0.1	20.547	C
B-A	219	271	0.807	218	3.7	65.125	F
C-AB	19	463	0.040	19	0.0	8.100	A
C-A	1098			1098			
A-B	262			262			
A-C	1127			1127			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	403	0.027	11	0.0	9.180	A
B-A	179	381	0.470	190	0.9	20.465	C
C-AB	15	532	0.029	15	0.0	6.961	A
C-A	896			896			
A-B	214			214			
A-C	921			921			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	470	0.019	9	0.0	7.810	A
B-A	150	460	0.326	152	0.5	12.123	B
C-AB	13	583	0.022	13	0.0	6.320	A
C-A	751			751			
A-B	179			179			
A-C	771			771			

2031 Sensitivity Test 2, AM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		5.56	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	5.56	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D7	2031 Sensitivity Test 2	AM	ONE HOUR	07:45	09:15	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 - B4100 South		✓	1040	100.000
B - Charlotte Avenue		✓	242	100.000
C - B4100 North		✓	1270	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	350	690
	B - Charlotte Avenue	227	0	15
	C - B4100 North	1225	45	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	0	4
	B - Charlotte Avenue	3	0	0
	C - B4100 North	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.08	17.94	0.1	C
B-A	0.81	59.79	3.9	F
C-AB	0.09	7.50	0.1	A
C-A				
A-B				
A-C				

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	513	0.022	11	0.0	7.176	A
B-A	171	484	0.353	169	0.5	11.642	B
C-AB	34	628	0.054	34	0.1	6.055	A
C-A	922			922			
A-B	263			263			
A-C	519			519			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	456	0.030	13	0.0	8.141	A
B-A	204	409	0.498	202	1.0	17.681	C
C-AB	40	587	0.069	40	0.1	6.589	A
C-A	1101			1101			
A-B	315			315			
A-C	620			620			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	17	250	0.066	16	0.1	15.384	C
B-A	250	307	0.815	240	3.5	49.532	E
C-AB	50	530	0.094	49	0.1	7.495	A
C-A	1349			1349			
A-B	385			385			
A-C	760			760			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	17	217	0.076	16	0.1	17.941	C
B-A	250	307	0.815	248	3.9	59.789	F
C-AB	50	530	0.094	50	0.1	7.498	A
C-A	1349			1349			
A-B	385			385			
A-C	760			760			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	13	446	0.030	14	0.0	8.332	A
B-A	204	410	0.498	215	1.1	20.005	C
C-AB	40	587	0.069	41	0.1	6.591	A
C-A	1101			1101			
A-B	315			315			
A-C	620			620			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	511	0.022	11	0.0	7.203	A
B-A	171	484	0.353	173	0.6	11.951	B
C-AB	34	628	0.054	34	0.1	6.059	A
C-A	922			922			
A-B	263			263			
A-C	519			519			

2031 Sensitivity Test 2, PM

Data Errors and Warnings

No errors or warnings

Junction Network

Junctions

Junction	Name	Junction type	Arm A Direction	Arm B Direction	Arm C Direction	Use circulating lanes	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	Two-way	Two-way		3.83	A

Junction Network

Driving side	Lighting	Network delay (s)	Network LOS
Left	Normal/unknown	3.83	A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D8	2031 Sensitivity Test 2	PM	ONE HOUR	16:45	18:15	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 - B4100 South		✓	1229	100.000
B - Charlotte Avenue		✓	200	100.000
C - B4100 North		✓	996	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	226	1003
	B - Charlotte Avenue	190	0	10
	C - B4100 North	982	14	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - B4100 South	B - Charlotte Avenue	C - B4100 North
From	A - B4100 South	0	0	1
	B - Charlotte Avenue	3	0	0
	C - B4100 North	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max LOS
B-C	0.04	14.49	0.0	B
B-A	0.73	47.50	2.6	E
C-AB	0.03	7.87	0.0	A
C-A				
A-B				
A-C				

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	478	0.016	7	0.0	7.650	A
B-A	143	469	0.305	141	0.4	11.264	B
C-AB	11	589	0.018	10	0.0	6.218	A
C-A	739			739			
A-B	170			170			
A-C	755			755			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	422	0.021	9	0.0	8.708	A
B-A	171	392	0.436	169	0.8	16.601	C
C-AB	13	541	0.023	13	0.0	6.818	A
C-A	883			883			
A-B	203			203			
A-C	902			902			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	274	0.040	11	0.0	13.672	B
B-A	209	285	0.734	203	2.4	42.204	E
C-AB	15	473	0.033	15	0.0	7.867	A
C-A	1081			1081			
A-B	249			249			
A-C	1104			1104			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	11	259	0.042	11	0.0	14.490	B
B-A	209	285	0.734	208	2.6	47.497	E
C-AB	15	473	0.033	15	0.0	7.867	A
C-A	1081			1081			
A-B	249			249			
A-C	1104			1104			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	9	418	0.022	9	0.0	8.811	A
B-A	171	392	0.436	178	0.8	17.887	C
C-AB	13	541	0.023	13	0.0	6.819	A
C-A	883			883			
A-B	203			203			
A-C	902			902			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	8	477	0.016	8	0.0	7.672	A
B-A	143	469	0.305	144	0.5	11.485	B
C-AB	11	589	0.018	11	0.0	6.219	A
C-A	739			739			
A-B	170			170			
A-C	755			755			