Appendix 68

Poplars Avenue (*central*) Modelling Reports

Junctions 9

PICADY 9 - Priority Intersection Module

Filename: Poplars Avenue C 2025 and 2030.j9
Report generation date: 25/01/2018 23:03:39

Summary of junction performance

	AM			PM		
	Queue (PCU)	Delay (s)	RFC	Queue (PCU)	Delay (s)	RFC
	2025 Do Something					
Stream B-C	0.3	6.81	0.23	0.5	8.76	0.31
Stream B-A	0.1	10.04	0.09	0.8	21.35	0.46
Stream C-B	0.2	6.25	0.14	0.8	9.35	0.46
	2030 Do Something					
Stream B-C	0.4	7.25	0.27	0.2	6.76	0.20
Stream B-A	0.1	10.40	0.10	0.3	14.17	0.21
Stream C-B	0.1	6.06	0.12	0.5	7.79	0.34
	2030 Do Something Through Route					
Stream B-C	0.1	5.75	0.13	0.1	5.16	0.07
Stream B-A	0.0	8.56	0.05	0.0	8.46	0.04
Stream C-B	0.1	5.39	0.05	0.1	5.54	0.12

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	02/03/2016
Version	
Status	
Identifier	
Client	
Jobnumber	
Enumerator	
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	2025 Do Something	AM	ONE HOUR	07:45	09:15	15
D2	2025 Do Something	PM	ONE HOUR	16:45	18:15	15
D3	2030 Do Something	AM	ONE HOUR	07:45	09:15	15
D4	2030 Do Something	PM	ONE HOUR	16:45	18:15	15
D5	2030 Do Something Through Route	AM	ONE HOUR	07:45	09:15	15
D6	2030 Do Something Through Route	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2025 Do Something, AM

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1107A	Poplars Ave central	T-Junction	Two-way	1.77	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Poplars Ave	WEST	Major
B	Site		Minor
C	Poplars Ave	EAST	Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.25		✓	3.50	250.0		-

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

Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B	One lane plus flare	10.00	6.50	3.80	3.60	3.60	✓	1.00	65	200

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
1107A	B-A	614	0.106	0.267	0.168	0.382
1107A	B-C	840	0.122	0.308	-	-
1107A	C-B	820	0.301	0.301	-	-

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	2025 Do Something	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		✓	455	100.000
B		✓	173	100.000
C		✓	397	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	71	384
	B	33	0	140
	C	312	85	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS
B-C	0.23	6.81	0.3	1.3	A
B-A	0.09	10.04	0.1	0.5	B
C-A					
C-B	0.14	6.25	0.2	0.5	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)	LOS
B-C	105	734	0.144	105	0.2	5.712	A
B-A	25	466	0.053	25	0.1	8.155	A
C-A	235			235			
C-B	64	717	0.089	64	0.1	5.502	A
A-B	53			53			
A-C	289			289			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	126	713	0.177	126	0.2	6.127	A
B-A	30	436	0.068	30	0.1	8.852	A
C-A	280			280			
C-B	76	697	0.110	76	0.1	5.795	A
A-B	64			64			
A-C	345			345			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	154	683	0.226	154	0.3	6.800	A
B-A	36	395	0.092	36	0.1	10.035	B
C-A	344			344			
C-B	94	670	0.140	93	0.2	6.244	A
A-B	78			78			
A-C	423			423			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	154	683	0.226	154	0.3	6.806	A
B-A	36	395	0.092	36	0.1	10.043	B
C-A	344			344			
C-B	94	670	0.140	94	0.2	6.246	A
A-B	78			78			
A-C	423			423			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	126	713	0.177	126	0.2	6.137	A
B-A	30	436	0.068	30	0.1	8.863	A
C-A	280			280			
C-B	76	697	0.110	77	0.1	5.798	A
A-B	64			64			
A-C	345			345			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	105	734	0.144	106	0.2	5.728	A
B-A	25	466	0.053	25	0.1	8.171	A
C-A	235			235			
C-B	64	717	0.089	64	0.1	5.512	A
A-B	53			53			
A-C	289			289			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.17	0.00	0.00	0.17	0.17			N/A	N/A
B-A	0.06	0.00	0.00	0.06	0.06			N/A	N/A
C-B	0.10	0.00	0.00	0.10	0.10			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.21	0.00	0.00	0.21	0.21			N/A	N/A
B-A	0.07	0.03	0.25	0.45	0.48			N/A	N/A
C-B	0.12	0.00	0.00	0.12	0.12			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.29	0.03	0.25	0.46	0.48			N/A	N/A
B-A	0.10	0.03	0.26	0.47	0.49			N/A	N/A
C-B	0.16	0.03	0.26	0.46	0.49			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.29	0.03	0.31	1.02	1.31			N/A	N/A
B-A	0.10	0.03	0.25	0.45	0.48			N/A	N/A
C-B	0.16	0.03	0.25	0.45	0.48			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.22	0.00	0.00	0.22	0.22			N/A	N/A
B-A	0.07	0.00	0.00	0.07	0.07			N/A	N/A
C-B	0.12	0.00	0.00	0.12	0.12			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.17	0.00	0.00	0.17	0.17			N/A	N/A
B-A	0.06	0.00	0.00	0.06	0.06			N/A	N/A
C-B	0.10	0.00	0.00	0.10	0.10			N/A	N/A

2025 Do Something, PM

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1107A	Poplars Ave central	T-Junction	Two-way	4.89	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)
D2	2025 Do Something	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		✓	341	100.000
B		✓	298	100.000
C		✓	784	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	18	323
	B	128	0	170
	C	491	293	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS
B-C	0.31	8.76	0.5	1.9	A
B-A	0.46	21.35	0.8	4.0	C
C-A					
C-B	0.46	9.35	0.8	2.8	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)	LOS
B-C	128	722	0.177	127	0.2	6.046	A
B-A	96	423	0.228	95	0.3	10.931	B
C-A	370			370			
C-B	221	743	0.297	219	0.4	6.843	A
A-B	14			14			
A-C	243			243			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	153	681	0.224	153	0.3	6.803	A
B-A	115	376	0.306	115	0.4	13.713	B
C-A	441			441			
C-B	263	728	0.362	263	0.6	7.725	A
A-B	16			16			
A-C	290			290			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	187	601	0.312	187	0.4	8.688	A
B-A	141	310	0.455	139	0.8	20.949	C
C-A	541			541			
C-B	323	708	0.456	322	0.8	9.299	A
A-B	20			20			
A-C	356			356			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	187	598	0.313	187	0.5	8.763	A
B-A	141	309	0.456	141	0.8	21.348	C
C-A	541			541			
C-B	323	708	0.456	323	0.8	9.348	A
A-B	20			20			
A-C	356			356			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	153	679	0.225	153	0.3	6.862	A
B-A	115	376	0.306	117	0.5	13.954	B
C-A	441			441			
C-B	263	728	0.362	264	0.6	7.777	A
A-B	16			16			
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-C	128	720	0.178	128	0.2	6.087	A
B-A	96	423	0.228	97	0.3	11.075	B
C-A	370			370			
C-B	221	743	0.297	221	0.4	6.905	A
A-B	14			14			
A-C	243			243			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.21	0.00	0.00	0.21	0.21			N/A	N/A
B-A	0.29	0.00	0.00	0.29	0.29			N/A	N/A
C-B	0.42	0.00	0.00	0.42	0.42			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.29	0.00	0.00	0.29	0.29			N/A	N/A
B-A	0.43	0.00	0.00	0.43	0.43			N/A	N/A
C-B	0.56	0.55	1.00	1.40	1.45			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.45	0.03	0.26	0.46	0.49			N/A	N/A
B-A	0.80	0.03	0.27	0.80	1.17			N/A	N/A
C-B	0.82	0.03	0.26	0.82	0.82			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.45	0.03	0.31	1.39	1.86			N/A	N/A
B-A	0.82	0.03	0.30	1.26	3.97			N/A	N/A
C-B	0.83	0.03	0.28	0.83	2.84			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.29	0.00	0.00	0.29	0.29			N/A	N/A
B-A	0.45	0.04	0.38	1.21	1.36			N/A	N/A
C-B	0.57	0.08	0.76	1.35	1.43			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.22	0.00	0.00	0.22	0.22			N/A	N/A
B-A	0.30	0.03	0.28	0.65	1.08			N/A	N/A
C-B	0.43	0.03	0.34	1.12	1.31			N/A	N/A

2030 Do Something, AM

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1107A	Poplars Ave central	T-Junction	Two-way	1.83	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	2030 Do Something	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		✓	447	100.000
B		✓	198	100.000
C		✓	432	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	32	415
	B	35	0	163
	C	361	71	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS
B-C	0.27	7.25	0.4	1.2	A
B-A	0.10	10.40	0.1	0.5	B
C-A					
C-B	0.12	6.06	0.1	0.5	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)	LOS
B-C	123	730	0.168	122	0.2	5.914	A
B-A	26	460	0.057	26	0.1	8.296	A
C-A	272			272			
C-B	53	719	0.074	53	0.1	5.402	A
A-B	24			24			
A-C	312			312			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	147	708	0.207	146	0.3	6.409	A
B-A	31	429	0.073	31	0.1	9.062	A
C-A	325			325			
C-B	64	700	0.091	64	0.1	5.661	A
A-B	29			29			
A-C	373			373			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	179	676	0.265	179	0.4	7.235	A
B-A	39	385	0.100	38	0.1	10.393	B
C-A	397			397			
C-B	78	672	0.116	78	0.1	6.054	A
A-B	35			35			
A-C	457			457			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	179	676	0.265	179	0.4	7.247	A
B-A	39	385	0.100	39	0.1	10.402	B
C-A	397			397			
C-B	78	672	0.116	78	0.1	6.056	A
A-B	35			35			
A-C	457			457			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	147	708	0.207	147	0.3	6.427	A
B-A	31	429	0.073	32	0.1	9.071	A
C-A	325			325			
C-B	64	700	0.091	64	0.1	5.665	A
A-B	29			29			
A-C	373			373			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	123	730	0.168	123	0.2	5.934	A
B-A	26	460	0.057	26	0.1	8.313	A
C-A	272			272			
C-B	53	719	0.074	54	0.1	5.409	A
A-B	24			24			
A-C	312			312			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.20	0.00	0.00	0.20	0.20			N/A	N/A
B-A	0.06	0.00	0.00	0.06	0.06			N/A	N/A
C-B	0.08	0.00	0.00	0.08	0.08			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.26	0.00	0.00	0.26	0.26			N/A	N/A
B-A	0.08	0.03	0.26	0.47	0.49			N/A	N/A
C-B	0.10	0.03	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.36	0.03	0.25	0.46	0.48			N/A	N/A
B-A	0.11	0.03	0.26	0.47	0.49			N/A	N/A
C-B	0.13	0.03	0.26	0.46	0.49			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.36	0.03	0.32	1.21	1.21			N/A	N/A
B-A	0.11	0.03	0.25	0.45	0.48			N/A	N/A
C-B	0.13	0.03	0.25	0.45	0.48			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.26	0.00	0.00	0.26	0.26			N/A	N/A
B-A	0.08	0.00	0.00	0.08	0.08			N/A	N/A
C-B	0.10	0.00	0.00	0.10	0.10			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.20	0.00	0.00	0.20	0.20			N/A	N/A
B-A	0.06	0.00	0.00	0.06	0.06			N/A	N/A
C-B	0.08	0.00	0.00	0.08	0.08			N/A	N/A

2030 Do Something, PM

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1107A	Poplars Ave central	T-Junction	Two-way	2.49	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	2030 Do Something	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		✓	377	100.000
B		✓	181	100.000
C		✓	776	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	26	351
	B	61	0	120
	C	564	212	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS
B-C	0.20	6.76	0.2	1.1	A
B-A	0.21	14.17	0.3	1.2	B
C-A					
C-B	0.34	7.79	0.5	2.3	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)	LOS
B-C	90	725	0.125	90	0.1	5.658	A
B-A	46	422	0.109	45	0.1	9.554	A
C-A	425			425			
C-B	160	735	0.217	159	0.3	6.232	A
A-B	20			20			
A-C	264			264			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	108	702	0.154	108	0.2	6.058	A
B-A	55	380	0.144	55	0.2	11.071	B
C-A	507			507			
C-B	191	719	0.265	190	0.4	6.809	A
A-B	23			23			
A-C	316			316			

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	132	665	0.199	132	0.2	6.752	A
B-A	67	321	0.209	67	0.3	14.124	B
C-A	621			621			
C-B	233	696	0.336	233	0.5	7.769	A
A-B	29			29			
A-C	386			386			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	132	664	0.199	132	0.2	6.762	A
B-A	67	321	0.209	67	0.3	14.175	B
C-A	621			621			
C-B	233	696	0.336	233	0.5	7.787	A
A-B	29			29			
A-C	386			386			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	108	701	0.154	108	0.2	6.071	A
B-A	55	379	0.145	55	0.2	11.116	B
C-A	507			507			
C-B	191	719	0.265	191	0.4	6.834	A
A-B	23			23			
A-C	316			316			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	90	725	0.125	91	0.1	5.674	A
B-A	46	421	0.109	46	0.1	9.599	A
C-A	425			425			
C-B	160	735	0.217	160	0.3	6.262	A
A-B	20			20			
A-C	264			264			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.14	0.00	0.00	0.14	0.14			N/A	N/A
B-A	0.12	0.00	0.00	0.12	0.12			N/A	N/A
C-B	0.27	0.00	0.00	0.27	0.27			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.18	0.00	0.00	0.18	0.18			N/A	N/A
B-A	0.17	0.00	0.00	0.17	0.17			N/A	N/A
C-B	0.36	0.00	0.00	0.36	0.36			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.25	0.03	0.26	0.46	0.48			N/A	N/A
B-A	0.26	0.03	0.26	0.47	0.49			N/A	N/A
C-B	0.50	0.03	0.25	0.50	0.50			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.25	0.03	0.29	0.73	1.12			N/A	N/A
B-A	0.26	0.03	0.30	0.90	1.22			N/A	N/A
C-B	0.50	0.03	0.30	1.34	2.29			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.18	0.00	0.00	0.18	0.18			N/A	N/A
B-A	0.17	0.00	0.00	0.17	0.17			N/A	N/A
C-B	0.36	0.00	0.00	0.36	0.36			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.14	0.00	0.00	0.14	0.14			N/A	N/A
B-A	0.12	0.00	0.00	0.12	0.12			N/A	N/A
C-B	0.28	0.00	0.00	0.28	0.28			N/A	N/A

2030 Do Something Through Route, AM

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1107A	Poplars Ave central	T-Junction	Two-way	1.03	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	2030 Do Something Through Route	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		✓	343	100.000
B		✓	101	100.000
C		✓	354	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	12	331
	B	18	0	83
	C	319	35	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS
B-C	0.13	5.75	0.1	0.5	A
B-A	0.05	8.56	0.0	0.5	A
C-A					
C-B	0.05	5.39	0.1	0.5	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)	LOS
B-C	62	757	0.083	62	0.1	5.179	A
B-A	14	496	0.027	13	0.0	7.463	A
C-A	240			240			
C-B	26	743	0.035	26	0.0	5.022	A
A-B	9			9			
A-C	249			249			

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	75	741	0.101	75	0.1	5.405	A
B-A	16	473	0.034	16	0.0	7.888	A
C-A	287			287			
C-B	31	728	0.043	31	0.0	5.169	A
A-B	11			11			
A-C	298			298			

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	91	718	0.127	91	0.1	5.744	A
B-A	20	440	0.045	20	0.0	8.556	A
C-A	351			351			
C-B	39	707	0.055	38	0.1	5.385	A
A-B	13			13			
A-C	364			364			

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	91	718	0.127	91	0.1	5.746	A
B-A	20	440	0.045	20	0.0	8.558	A
C-A	351			351			
C-B	39	707	0.055	39	0.1	5.385	A
A-B	13			13			
A-C	364			364			

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	75	741	0.101	75	0.1	5.407	A
B-A	16	472	0.034	16	0.0	7.892	A
C-A	287			287			
C-B	31	728	0.043	32	0.0	5.172	A
A-B	11			11			
A-C	298			298			

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	62	757	0.083	63	0.1	5.187	A
B-A	14	496	0.027	14	0.0	7.468	A
C-A	240			240			
C-B	26	743	0.035	26	0.0	5.024	A
A-B	9			9			
A-C	249			249			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.09	0.00	0.00	0.09	0.09			N/A	N/A
B-A	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-B	0.04	0.00	0.00	0.04	0.04			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.11	0.00	0.00	0.11	0.11			N/A	N/A
B-A	0.04	0.03	0.25	0.45	0.48			N/A	N/A
C-B	0.04	0.03	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.14	0.03	0.26	0.46	0.49			N/A	N/A
B-A	0.05	0.03	0.26	0.46	0.48			N/A	N/A
C-B	0.06	0.03	0.26	0.46	0.49			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.15	0.03	0.25	0.45	0.48			N/A	N/A
B-A	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-B	0.06	0.00	0.00	0.06	0.06			N/A	N/A

08:45 - 09:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.11	0.00	0.00	0.11	0.11			N/A	N/A
B-A	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-B	0.05	0.00	0.00	0.05	0.05			N/A	N/A

09:00 - 09:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.09	0.00	0.00	0.09	0.09			N/A	N/A
B-A	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-B	0.04	0.00	0.00	0.04	0.04			N/A	N/A

2030 Do Something Through Route, PM

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1107A	Poplars Ave central	T-Junction	Two-way	1.08	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	2030 Do Something Through Route	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		✓	242	100.000
B		✓	63	100.000
C		✓	474	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A	B	C
From	A	0	12	230
	B	18	0	45
	C	392	82	0

Vehicle Mix

Heavy Vehicle Percentages

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

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS
B-C	0.07	5.16	0.1	0.5	A
B-A	0.04	8.46	0.0	0.5	A
C-A					
C-B	0.12	5.54	0.1	0.5	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)	LOS
B-C	34	775	0.044	34	0.0	4.853	A
B-A	14	502	0.027	13	0.0	7.365	A
C-A	295			295			
C-B	62	766	0.081	61	0.1	5.109	A
A-B	9			9			
A-C	173			173			

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	40	763	0.053	40	0.1	4.979	A
B-A	16	478	0.034	16	0.0	7.792	A
C-A	352			352			
C-B	74	755	0.098	74	0.1	5.283	A
A-B	11			11			
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-C	50	747	0.066	49	0.1	5.161	A
B-A	20	445	0.045	20	0.0	8.461	A
C-A	432			432			
C-B	90	740	0.122	90	0.1	5.537	A
A-B	13			13			
A-C	253			253			

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	50	747	0.066	50	0.1	5.161	A
B-A	20	445	0.045	20	0.0	8.463	A
C-A	432			432			
C-B	90	740	0.122	90	0.1	5.537	A
A-B	13			13			
A-C	253			253			

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	40	763	0.053	41	0.1	4.980	A
B-A	16	478	0.034	16	0.0	7.795	A
C-A	352			352			
C-B	74	755	0.098	74	0.1	5.287	A
A-B	11			11			
A-C	207			207			

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	End queue (PCU)	Delay (s)	LOS
B-C	34	775	0.044	34	0.0	4.858	A
B-A	14	502	0.027	14	0.0	7.373	A
C-A	295			295			
C-B	62	766	0.081	62	0.1	5.116	A
A-B	9			9			
A-C	173			173			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.05	0.00	0.00	0.05	0.05			N/A	N/A
B-A	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-B	0.09	0.00	0.00	0.09	0.09			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.06	0.03	0.25	0.45	0.48			N/A	N/A
B-A	0.03	0.03	0.25	0.45	0.48			N/A	N/A
C-B	0.11	0.00	0.00	0.11	0.11			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.07	0.03	0.26	0.47	0.49			N/A	N/A
B-A	0.05	0.03	0.25	0.46	0.48			N/A	N/A
C-B	0.14	0.03	0.26	0.46	0.49			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.07	0.00	0.00	0.07	0.07			N/A	N/A
B-A	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-B	0.14	0.03	0.25	0.45	0.48			N/A	N/A

17:45 - 18:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.06	0.00	0.00	0.06	0.06			N/A	N/A
B-A	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-B	0.11	0.00	0.00	0.11	0.11			N/A	N/A

18:00 - 18:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.05	0.00	0.00	0.05	0.05			N/A	N/A
B-A	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-B	0.09	0.00	0.00	0.09	0.09			N/A	N/A