

# Junctions 9

## PICADY 9 - Priority Intersection Module

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**Filename:** J3 Botwell Lane- Printing House Lane Priority Junction.j9

**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios

**Report generation date:** 23/01/2017 17:59:10

»2016, AM

»2016, PM

»2024 Baseline, AM

»2024 Baseline, PM

»2024 Baseline+Dev, AM

»2024 Baseline+Dev, PM

»2029 Baseline, AM

»2029 Baseline, PM

»2029 Baseline+Dev, AM

»2029 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
2016								
Stream B-AC	3.3	38.51	0.76	E	31.3	217.80	1.09	F
Stream C-AB	2.2	12.97	0.58	B	0.6	7.20	0.25	A
2024 Baseline								
Stream B-AC	33.4	301.36	1.18	F	249.0	1767.23	1.74	F
Stream C-AB	25.7	105.26	1.00	F	0.8	8.02	0.33	A
2024 Baseline+Dev								
Stream B-AC	33.4	301.36	1.18	F	249.0	1767.23	1.74	F
Stream C-AB	25.7	105.26	1.00	F	0.8	8.02	0.33	A
2029 Baseline								
Stream B-AC	41.4	369.81	1.25	F	272.4	1935.49	1.80	F
Stream C-AB	32.2	129.54	1.03	F	0.9	8.15	0.34	A
2029 Baseline+Dev								
Stream B-AC	41.4	369.81	1.25	F	272.4	1935.49	1.80	F
Stream C-AB	32.2	129.54	1.03	F	0.9	8.15	0.34	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	19/11/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLIDemetris Psyllides
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

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				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)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2016, 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	9.16	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Botwell Lane (E)		Major
B	Printing House Lane		Minor
C	Botwell Lane (W)		Major

### Major Arm Geometry

Arm	Width of carrieway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Botwell Lane (W)	9.60			220.0	✓	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 - Printing House Lane	One lane	4.30	122	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	609	0.094	0.236	0.149	0.338
1	B-C	736	0.095	0.240	-	-
1	C-B	701	0.229	0.229	-	-

*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)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	909	100.000
B - Printing House Lane		ONE HOUR	✓	293	100.000
C - Botwell Lane (W)		ONE HOUR	✓	513	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	0	694	215
	B - Printing House Lane	179	0	114
	C - Botwell Lane (W)	315	198	0

## Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.76	38.51	3.3	E	269	403
C-AB	0.58	12.97	2.2	B	314	471
C-A					157	236
A-B					637	955
A-C					197	296

### Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	221	55	499	0.442	217	0.0	0.8	13.872	B
C-AB	224	56	710	0.315	221	0.0	0.7	8.080	A
C-A	162	41			162				
A-B	522	131			522				
A-C	162	40			162				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	263	66	468	0.563	261	0.8	1.4	18.995	C
C-AB	296	74	717	0.412	294	0.7	1.1	9.379	A
C-A	166	41			166				

A-B	624	156			624				
A-C	193	48			193				

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	323	81	423	0.762	316	1.4	3.0	34.800	D
C-AB	419	105	729	0.575	415	1.1	2.1	12.637	B
C-A	146	36			146				
A-B	764	191			764				
A-C	237	59			237				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	323	81	422	0.764	322	3.0	3.3	38.511	E
C-AB	421	105	731	0.576	421	2.1	2.2	12.969	B
C-A	144	36			144				
A-B	764	191			764				
A-C	237	59			237				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	263	66	467	0.565	271	3.3	1.5	20.858	C
C-AB	298	74	719	0.414	302	2.2	1.1	9.633	A
C-A	164	41			164				
A-B	624	156			624				
A-C	193	48			193				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	221	55	499	0.442	223	1.5	0.9	14.494	B
C-AB	225	56	711	0.317	227	1.1	0.7	8.231	A
C-A	161	40			161				
A-B	522	131			522				
A-C	162	40			162				

## 2016, 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	66.90	F

### 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)	Run automatically
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	673	100.000
B - Printing House Lane		ONE HOUR	✓	454	100.000
C - Botwell Lane (W)		ONE HOUR	✓	368	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	424	249
	B - Printing House Lane	339	0	115
	C - Botwell Lane (W)	266	102	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.09	217.80	31.3	F	417	625
C-AB	0.25	7.20	0.6	A	144	215
C-A					194	291
A-B					389	584
A-C					228	343

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	342	85	515	0.664	334	0.0	2.0	21.040	C
C-AB	106	27	720	0.148	105	0.0	0.3	6.433	A
C-A	171	43			171				
A-B	319	80			319				
A-C	187	47			187				

### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	408	102	490	0.832	399	2.0	4.4	39.486	E
C-AB	137	34	727	0.188	137	0.3	0.4	6.708	A
C-A	194	48			194				
A-B	381	95			381				
A-C	224	56			224				

### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	500	125	457	1.094	441	4.4	19.2	118.594	F
C-AB	187	47	738	0.253	186	0.4	0.5	7.180	A
C-A	218	55			218				
A-B	467	117			467				
A-C	274	69			274				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	500	125	457	1.095	452	19.2	31.3	217.801	F
C-AB	187	47	739	0.253	187	0.5	0.6	7.200	A
C-A	218	55			218				
A-B	467	117			467				
A-C	274	69			274				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	408	102	490	0.833	474	31.3	14.9	181.917	F
C-AB	137	34	728	0.189	138	0.6	0.4	6.733	A
C-A	194	48			194				
A-B	381	95			381				
A-C	224	56			224				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	342	85	514	0.664	392	14.9	2.4	42.557	E
C-AB	107	27	721	0.148	107	0.4	0.3	6.463	A
C-A	170	43			170				
A-B	319	80			319				
A-C	187	47			187				

## 2024 Baseline, 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	77.68	F

### 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)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1124	100.000
B - Printing House Lane		ONE HOUR	✓	347	100.000
C - Botwell Lane (W)		ONE HOUR	✓	735	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	805	319
	B - Printing House Lane	207	0	140
	C - Botwell Lane (W)	465	270	0



## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.18	301.36	33.4	F	318	478
C-AB	1.00	105.26	25.7	F	582	873
C-A					92	138
A-B					739	1108
A-C					293	439

### Main Results for each time segment

#### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	446	0.586	255	0.0	1.5	20.213	C
C-AB	377	94	759	0.497	371	0.0	1.6	10.159	B
C-A	176	44			176				
A-B	606	152			606				
A-C	240	60			240				

#### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	401	0.778	305	1.5	3.3	38.601	E
C-AB	529	132	781	0.677	521	1.6	3.3	15.362	C
C-A	132	33			132				
A-B	724	181			724				
A-C	287	72			287				

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	336	1.138	323	3.3	18.0	146.077	F
C-AB	809	202	811	0.998	749	3.3	18.4	57.198	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	323	1.182	321	18.0	33.4	301.359	F
C-AB	809	202	812	0.996	780	18.4	25.7	105.261	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	382	0.817	370	33.4	19.0	257.609	F
C-AB	584	146	827	0.706	669	25.7	4.6	39.351	E
C-A	77	19			77				
A-B	724	181			724				
A-C	287	72			287				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	442	0.591	330	19.0	1.7	53.872	F
C-AB	385	96	766	0.503	397	4.6	1.7	11.154	B
C-A	168	42			168				
A-B	606	152			606				
A-C	240	60			240				

# 2024 Baseline , 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	637.68	F

### 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)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
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✓	✓	✓	HV Percentages	2.00
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## Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	798	100.000
B - Printing House Lane		ONE HOUR	✓	689	100.000
C - Botwell Lane (W)		ONE HOUR	✓	425	100.000

## Origin-Destination Data

### Demand (PCU/hr)

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	0	408	390
B - Printing House Lane	409	0	280
C - Botwell Lane (W)	303	122	0

## Vehicle Mix

### Heavy Vehicle Percentages

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	10	10	10
B - Printing House Lane	10	10	10
C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.74	1767.23	249.0	F	632	948
C-AB	0.33	8.02	0.8	A	186	278
C-A					204	307
A-B					374	562
A-C					358	537

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.022	467	0.0	12.8	69.140	F
C-AB	134	34	720	0.187	133	0.0	0.3	6.736	A
C-A	186	46			186				

A-B	307	77			307				
A-C	294	73			294				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	478	1.297	475	12.8	49.0	259.544	F
C-AB	176	44	728	0.241	175	0.3	0.5	7.165	A
C-A	206	52			206				
A-B	367	92			367				
A-C	351	88			351				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.740	436	49.0	129.7	751.469	F
C-AB	245	61	741	0.331	244	0.5	0.8	7.977	A
C-A	223	56			223				
A-B	449	112			449				
A-C	429	107			429				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.741	436	129.7	210.5	1417.564	F
C-AB	246	61	742	0.331	246	0.8	0.8	8.016	A
C-A	222	56			222				
A-B	449	112			449				
A-C	429	107			429				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	477	1.298	477	210.5	246.0	1683.487	F
C-AB	176	44	729	0.242	178	0.8	0.5	7.215	A
C-A	206	51			206				
A-B	367	92			367				
A-C	351	88			351				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.023	507	246.0	249.0	1767.228	F
C-AB	135	34	721	0.187	136	0.5	0.4	6.782	A
C-A	185	46			185				
A-B	307	77			307				
A-C	294	73			294				

# 2024 Baseline+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	77.68	F

## 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)	Run automatically
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

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

## Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1124	100.000
B - Printing House Lane		ONE HOUR	✓	347	100.000
C - Botwell Lane (W)		ONE HOUR	✓	735	100.000

# Origin-Destination Data

## Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	805	319
	B - Printing House Lane	207	0	140
	C - Botwell Lane (W)	465	270	0

# Vehicle Mix

## Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

# Results

## Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.18	301.36	33.4	F	318	478
C-AB	1.00	105.26	25.7	F	582	873
C-A					92	138
A-B					739	1108
A-C					293	439

## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	446	0.586	255	0.0	1.5	20.213	C
C-AB	377	94	759	0.497	371	0.0	1.6	10.159	B
C-A	176	44			176				
A-B	606	152			606				
A-C	240	60			240				

### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	401	0.778	305	1.5	3.3	38.601	E
C-AB	529	132	781	0.677	521	1.6	3.3	15.362	C
C-A	132	33			132				
A-B	724	181			724				
A-C	287	72			287				

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	336	1.138	323	3.3	18.0	146.077	F
C-AB	809	202	811	0.998	749	3.3	18.4	57.198	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	323	1.182	321	18.0	33.4	301.359	F
C-AB	809	202	812	0.996	780	18.4	25.7	105.261	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
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B-AC	312	78	382	0.817	370	33.4	19.0	257.609	F
C-AB	584	146	827	0.706	669	25.7	4.6	39.351	E
C-A	77	19			77				
A-B	724	181			724				
A-C	287	72			287				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	442	0.591	330	19.0	1.7	53.872	F
C-AB	385	96	766	0.503	397	4.6	1.7	11.154	B
C-A	168	42			168				
A-B	606	152			606				
A-C	240	60			240				

## 2024 Baseline+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	637.68	F

### 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)	Run automatically
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	798	100.000
B - Printing House Lane		ONE HOUR	✓	689	100.000
C - Botwell Lane (W)		ONE HOUR	✓	425	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	408	390
	B - Printing House Lane	409	0	280
	C - Botwell Lane (W)	303	122	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.74	1767.23	249.0	F	632	948
C-AB	0.33	8.02	0.8	A	186	278
C-A					204	307
A-B					374	562
A-C					358	537

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.022	467	0.0	12.8	69.140	F
C-AB	134	34	720	0.187	133	0.0	0.3	6.736	A
C-A	186	46			186				
A-B	307	77			307				
A-C	294	73			294				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	478	1.297	475	12.8	49.0	259.544	F
C-AB	176	44	728	0.241	175	0.3	0.5	7.165	A
C-A	206	52			206				
A-B	367	92			367				



A-C	351	88			351				
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### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.740	436	49.0	129.7	751.469	F
C-AB	245	61	741	0.331	244	0.5	0.8	7.977	A
C-A	223	56			223				
A-B	449	112			449				
A-C	429	107			429				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.741	436	129.7	210.5	1417.564	F
C-AB	246	61	742	0.331	246	0.8	0.8	8.016	A
C-A	222	56			222				
A-B	449	112			449				
A-C	429	107			429				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	477	1.298	477	210.5	246.0	1683.487	F
C-AB	176	44	729	0.242	178	0.8	0.5	7.215	A
C-A	206	51			206				
A-B	367	92			367				
A-C	351	88			351				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.023	507	246.0	249.0	1767.228	F
C-AB	135	34	721	0.187	136	0.5	0.4	6.782	A
C-A	185	46			185				
A-B	307	77			307				
A-C	294	73			294				

# 2029 Baseline, 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	96.06	F

### Junction Network Options

Driving side	Lighting
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Left	Normal/unknown
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## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1147	100.000
B - Printing House Lane		ONE HOUR	✓	355	100.000
C - Botwell Lane (W)		ONE HOUR	✓	748	100.000

## Origin-Destination Data

### Demand (PCU/hr)

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	0	823	324
B - Printing House Lane	212	0	143
C - Botwell Lane (W)	473	275	0

## Vehicle Mix

### Heavy Vehicle Percentages

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	10	10	10
B - Printing House Lane	10	10	10
C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.25	369.81	41.4	F	326	489
C-AB	1.03	129.54	32.2	F	601	902
C-A					85	128
A-B					755	1133
A-C					297	446

## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	442	0.605	261	0.0	1.6	21.240	C
C-AB	390	97	760	0.513	383	0.0	1.7	10.442	B
C-A	174	43			174				
A-B	620	155			620				
A-C	244	61			244				

### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	395	0.807	311	1.6	3.7	42.843	E
C-AB	548	137	783	0.700	540	1.7	3.7	16.420	C
C-A	124	31			124				
A-B	740	185			740				
A-C	291	73			291				

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	329	1.189	319	3.7	21.6	171.227	F
C-AB	824	206	802	1.027	751	3.7	21.7	66.657	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	313	1.247	312	21.6	41.4	369.811	F
C-AB	824	206	804	1.024	782	21.7	32.2	129.537	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	371	0.860	362	41.4	30.8	353.265	F
C-AB	622	156	841	0.740	728	32.2	5.7	60.452	F
C-A	50	13			50				
A-B	740	185			740				
A-C	291	73			291				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
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B-AC	267	67	437	0.611	382	30.8	2.0	121.048	F
C-AB	399	100	770	0.519	415	5.7	1.8	11.769	B
C-A	164	41			164				
A-B	620	155			620				
A-C	244	61			244				

## 2029 Baseline , 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	696.23	F

### 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)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	816	100.000
B - Printing House Lane		ONE HOUR	✓	702	100.000
C - Botwell Lane (W)		ONE HOUR	✓	436	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	420	396
	B - Printing House Lane	419	0	283
	C - Botwell Lane (W)	311	125	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	10	10	10
B - Printing House Lane	10	10	10
C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.80	1935.49	272.4	F	644	966
C-AB	0.34	8.15	0.9	A	193	290
C-A					207	310
A-B					385	578
A-C					363	545

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	504	1.049	469	0.0	14.9	76.831	F
C-AB	139	35	722	0.193	138	0.0	0.4	6.773	A
C-A	189	47			189				
A-B	316	79			316				
A-C	298	75			298				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.334	471	14.9	54.9	293.078	F
C-AB	183	46	730	0.250	182	0.4	0.5	7.230	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

#### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.796	430	54.9	140.6	829.884	F
C-AB	256	64	744	0.344	255	0.5	0.9	8.110	A
C-A	224	56			224				
A-B	462	116			462				
A-C	436	109			436				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.335	473	226.4	266.0	1825.718	F
C-AB	183	46	731	0.251	185	0.9	0.6	7.285	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	503	1.050	503	266.0	272.4	1935.490	F
C-AB	140	35	722	0.194	141	0.6	0.4	6.827	A
C-A	188	47			188				
A-B	316	79			316				
A-C	298	75			298				

## 2029 Baseline+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	96.06	F

### 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)	Run automatically
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
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✓	✓	✓	HV Percentages	2.00
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### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1147	100.000
B - Printing House Lane		ONE HOUR	✓	355	100.000
C - Botwell Lane (W)		ONE HOUR	✓	748	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	823	324
	B - Printing House Lane	212	0	143
	C - Botwell Lane (W)	473	275	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.25	369.81	41.4	F	326	489
C-AB	1.03	129.54	32.2	F	601	902
C-A					85	128
A-B					755	1133
A-C					297	446

### Main Results for each time segment

#### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	442	0.605	261	0.0	1.6	21.240	C
C-AB	390	97	760	0.513	383	0.0	1.7	10.442	B
C-A	174	43			174				

A-B	620	155			620				
A-C	244	61			244				

#### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	395	0.807	311	1.6	3.7	42.843	E
C-AB	548	137	783	0.700	540	1.7	3.7	16.420	C
C-A	124	31			124				
A-B	740	185			740				
A-C	291	73			291				

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	329	1.189	319	3.7	21.6	171.227	F
C-AB	824	206	802	1.027	751	3.7	21.7	66.657	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	313	1.247	312	21.6	41.4	369.811	F
C-AB	824	206	804	1.024	782	21.7	32.2	129.537	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	371	0.860	362	41.4	30.8	353.265	F
C-AB	622	156	841	0.740	728	32.2	5.7	60.452	F
C-A	50	13			50				
A-B	740	185			740				
A-C	291	73			291				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	437	0.611	382	30.8	2.0	121.048	F
C-AB	399	100	770	0.519	415	5.7	1.8	11.769	B
C-A	164	41			164				
A-B	620	155			620				
A-C	244	61			244				

## 2029 Baseline+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	696.23	F

## 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)	Run automatically
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

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

## Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	816	100.000
B - Printing House Lane		ONE HOUR	✓	702	100.000
C - Botwell Lane (W)		ONE HOUR	✓	436	100.000

# Origin-Destination Data

## Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	420	396
	B - Printing House Lane	419	0	283
	C - Botwell Lane (W)	311	125	0

# Vehicle Mix

## Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

# Results

## Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.80	1935.49	272.4	F	644	966
C-AB	0.34	8.15	0.9	A	193	290
C-A					207	310
A-B					385	578
A-C					363	545

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	504	1.049	469	0.0	14.9	76.831	F
C-AB	139	35	722	0.193	138	0.0	0.4	6.773	A
C-A	189	47			189				
A-B	316	79			316				
A-C	298	75			298				

### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.334	471	14.9	54.9	293.078	F
C-AB	183	46	730	0.250	182	0.4	0.5	7.230	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.796	430	54.9	140.6	829.884	F
C-AB	256	64	744	0.344	255	0.5	0.9	8.110	A
C-A	224	56			224				
A-B	462	116			462				
A-C	436	109			436				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				

B-AC	631	158	473	1.335	473	226.4	266.0	1825.718	F
C-AB	183	46	731	0.251	185	0.9	0.6	7.285	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	503	1.050	503	266.0	272.4	1935.490	F
C-AB	140	35	722	0.194	141	0.6	0.4	6.827	A
C-A	188	47			188				
A-B	316	79			316				
A-C	298	75			298				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J3 Botwell Lane- Printing House Lane Priority Junction.j9  
**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios  
**Report generation date:** 23/01/2017 17:59:10

- »2016, AM
- »2016, PM
- »2024 Baseline, AM
- »2024 Baseline, PM
- »2024 Baseline+Dev, AM
- »2024 Baseline+Dev, PM
- »2029 Baseline, AM
- »2029 Baseline, PM
- »2029 Baseline+Dev, AM
- »2029 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2016</b>								
Stream B-AC	3.3	38.51	0.76	E	31.3	217.80	1.09	F
Stream C-AB	2.2	12.97	0.58	B	0.6	7.20	0.25	A
<b>2024 Baseline</b>								
Stream B-AC	33.4	301.36	1.18	F	249.0	1767.23	1.74	F
Stream C-AB	25.7	105.26	1.00	F	0.8	8.02	0.33	A
<b>2024 Baseline+Dev</b>								
Stream B-AC	33.4	301.36	1.18	F	249.0	1767.23	1.74	F
Stream C-AB	25.7	105.26	1.00	F	0.8	8.02	0.33	A
<b>2029 Baseline</b>								
Stream B-AC	41.4	369.81	1.25	F	272.4	1935.49	1.80	F
Stream C-AB	32.2	129.54	1.03	F	0.9	8.15	0.34	A
<b>2029 Baseline+Dev</b>								
Stream B-AC	41.4	369.81	1.25	F	272.4	1935.49	1.80	F
Stream C-AB	32.2	129.54	1.03	F	0.9	8.15	0.34	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	19/11/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLIDemetris Psyllides
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

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				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)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2016, 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	9.16	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Botwell Lane (E)		Major
B	Printing House Lane		Minor
C	Botwell Lane (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 - Botwell Lane (W)	9.60			220.0	✓	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 - Printing House Lane	One lane	4.30	122	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	609	0.094	0.236	0.149	0.338
1	B-C	736	0.095	0.240	-	-
1	C-B	701	0.229	0.229	-	-

*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)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	909	100.000
B - Printing House Lane		ONE HOUR	✓	293	100.000
C - Botwell Lane (W)		ONE HOUR	✓	513	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	0	694	215
	B - Printing House Lane	179	0	114
	C - Botwell Lane (W)	315	198	0

## Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.76	38.51	3.3	E	269	403
C-AB	0.58	12.97	2.2	B	314	471
C-A					157	236
A-B					637	955
A-C					197	296

### Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	221	55	499	0.442	217	0.0	0.8	13.872	B
C-AB	224	56	710	0.315	221	0.0	0.7	8.080	A
C-A	162	41			162				
A-B	522	131			522				
A-C	162	40			162				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	263	66	468	0.563	261	0.8	1.4	18.995	C
C-AB	296	74	717	0.412	294	0.7	1.1	9.379	A
C-A	166	41			166				

A-B	624	156			624				
A-C	193	48			193				

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	323	81	423	0.762	316	1.4	3.0	34.800	D
C-AB	419	105	729	0.575	415	1.1	2.1	12.637	B
C-A	146	36			146				
A-B	764	191			764				
A-C	237	59			237				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	323	81	422	0.764	322	3.0	3.3	38.511	E
C-AB	421	105	731	0.576	421	2.1	2.2	12.969	B
C-A	144	36			144				
A-B	764	191			764				
A-C	237	59			237				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	263	66	467	0.565	271	3.3	1.5	20.858	C
C-AB	298	74	719	0.414	302	2.2	1.1	9.633	A
C-A	164	41			164				
A-B	624	156			624				
A-C	193	48			193				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	221	55	499	0.442	223	1.5	0.9	14.494	B
C-AB	225	56	711	0.317	227	1.1	0.7	8.231	A
C-A	161	40			161				
A-B	522	131			522				
A-C	162	40			162				

## 2016, 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	66.90	F

### 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)	Run automatically
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	673	100.000
B - Printing House Lane		ONE HOUR	✓	454	100.000
C - Botwell Lane (W)		ONE HOUR	✓	368	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	424	249
	B - Printing House Lane	339	0	115
	C - Botwell Lane (W)	266	102	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.09	217.80	31.3	F	417	625
C-AB	0.25	7.20	0.6	A	144	215
C-A					194	291
A-B					389	584
A-C					228	343

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	342	85	515	0.664	334	0.0	2.0	21.040	C
C-AB	106	27	720	0.148	105	0.0	0.3	6.433	A
C-A	171	43			171				
A-B	319	80			319				
A-C	187	47			187				

### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	408	102	490	0.832	399	2.0	4.4	39.486	E
C-AB	137	34	727	0.188	137	0.3	0.4	6.708	A
C-A	194	48			194				
A-B	381	95			381				
A-C	224	56			224				

### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	500	125	457	1.094	441	4.4	19.2	118.594	F
C-AB	187	47	738	0.253	186	0.4	0.5	7.180	A
C-A	218	55			218				
A-B	467	117			467				
A-C	274	69			274				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	500	125	457	1.095	452	19.2	31.3	217.801	F
C-AB	187	47	739	0.253	187	0.5	0.6	7.200	A
C-A	218	55			218				
A-B	467	117			467				
A-C	274	69			274				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	408	102	490	0.833	474	31.3	14.9	181.917	F
C-AB	137	34	728	0.189	138	0.6	0.4	6.733	A
C-A	194	48			194				
A-B	381	95			381				
A-C	224	56			224				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	342	85	514	0.664	392	14.9	2.4	42.557	E
C-AB	107	27	721	0.148	107	0.4	0.3	6.463	A
C-A	170	43			170				
A-B	319	80			319				
A-C	187	47			187				

## 2024 Baseline, 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	77.68	F

### 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)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1124	100.000
B - Printing House Lane		ONE HOUR	✓	347	100.000
C - Botwell Lane (W)		ONE HOUR	✓	735	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	805	319
	B - Printing House Lane	207	0	140
	C - Botwell Lane (W)	465	270	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.18	301.36	33.4	F	318	478
C-AB	1.00	105.26	25.7	F	582	873
C-A					92	138
A-B					739	1108
A-C					293	439

### Main Results for each time segment

#### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	446	0.586	255	0.0	1.5	20.213	C
C-AB	377	94	759	0.497	371	0.0	1.6	10.159	B
C-A	176	44			176				
A-B	606	152			606				
A-C	240	60			240				

#### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	401	0.778	305	1.5	3.3	38.601	E
C-AB	529	132	781	0.677	521	1.6	3.3	15.362	C
C-A	132	33			132				
A-B	724	181			724				
A-C	287	72			287				

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	336	1.138	323	3.3	18.0	146.077	F
C-AB	809	202	811	0.998	749	3.3	18.4	57.198	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	323	1.182	321	18.0	33.4	301.359	F
C-AB	809	202	812	0.996	780	18.4	25.7	105.261	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	382	0.817	370	33.4	19.0	257.609	F
C-AB	584	146	827	0.706	669	25.7	4.6	39.351	E
C-A	77	19			77				
A-B	724	181			724				
A-C	287	72			287				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	442	0.591	330	19.0	1.7	53.872	F
C-AB	385	96	766	0.503	397	4.6	1.7	11.154	B
C-A	168	42			168				
A-B	606	152			606				
A-C	240	60			240				

# 2024 Baseline , 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	637.68	F

### 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)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
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✓	✓	✓	HV Percentages	2.00
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## Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	798	100.000
B - Printing House Lane		ONE HOUR	✓	689	100.000
C - Botwell Lane (W)		ONE HOUR	✓	425	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	408	390
	B - Printing House Lane	409	0	280
	C - Botwell Lane (W)	303	122	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.74	1767.23	249.0	F	632	948
C-AB	0.33	8.02	0.8	A	186	278
C-A					204	307
A-B					374	562
A-C					358	537

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.022	467	0.0	12.8	69.140	F
C-AB	134	34	720	0.187	133	0.0	0.3	6.736	A
C-A	186	46			186				

A-B	307	77			307				
A-C	294	73			294				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	478	1.297	475	12.8	49.0	259.544	F
C-AB	176	44	728	0.241	175	0.3	0.5	7.165	A
C-A	206	52			206				
A-B	367	92			367				
A-C	351	88			351				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.740	436	49.0	129.7	751.469	F
C-AB	245	61	741	0.331	244	0.5	0.8	7.977	A
C-A	223	56			223				
A-B	449	112			449				
A-C	429	107			429				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.741	436	129.7	210.5	1417.564	F
C-AB	246	61	742	0.331	246	0.8	0.8	8.016	A
C-A	222	56			222				
A-B	449	112			449				
A-C	429	107			429				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	477	1.298	477	210.5	246.0	1683.487	F
C-AB	176	44	729	0.242	178	0.8	0.5	7.215	A
C-A	206	51			206				
A-B	367	92			367				
A-C	351	88			351				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.023	507	246.0	249.0	1767.228	F
C-AB	135	34	721	0.187	136	0.5	0.4	6.782	A
C-A	185	46			185				
A-B	307	77			307				
A-C	294	73			294				

# 2024 Baseline+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	77.68	F

## 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)	Run automatically
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

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

## Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1124	100.000
B - Printing House Lane		ONE HOUR	✓	347	100.000
C - Botwell Lane (W)		ONE HOUR	✓	735	100.000

# Origin-Destination Data

## Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	805	319
	B - Printing House Lane	207	0	140
	C - Botwell Lane (W)	465	270	0

# Vehicle Mix

## Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

# Results

## Results Summary for whole modelled period



Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.18	301.36	33.4	F	318	478
C-AB	1.00	105.26	25.7	F	582	873
C-A					92	138
A-B					739	1108
A-C					293	439

## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	446	0.586	255	0.0	1.5	20.213	C
C-AB	377	94	759	0.497	371	0.0	1.6	10.159	B
C-A	176	44			176				
A-B	606	152			606				
A-C	240	60			240				

### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	401	0.778	305	1.5	3.3	38.601	E
C-AB	529	132	781	0.677	521	1.6	3.3	15.362	C
C-A	132	33			132				
A-B	724	181			724				
A-C	287	72			287				

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	336	1.138	323	3.3	18.0	146.077	F
C-AB	809	202	811	0.998	749	3.3	18.4	57.198	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	323	1.182	321	18.0	33.4	301.359	F
C-AB	809	202	812	0.996	780	18.4	25.7	105.261	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
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B-AC	312	78	382	0.817	370	33.4	19.0	257.609	F
C-AB	584	146	827	0.706	669	25.7	4.6	39.351	E
C-A	77	19			77				
A-B	724	181			724				
A-C	287	72			287				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	442	0.591	330	19.0	1.7	53.872	F
C-AB	385	96	766	0.503	397	4.6	1.7	11.154	B
C-A	168	42			168				
A-B	606	152			606				
A-C	240	60			240				

## 2024 Baseline+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	637.68	F

### 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)	Run automatically
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	798	100.000
B - Printing House Lane		ONE HOUR	✓	689	100.000
C - Botwell Lane (W)		ONE HOUR	✓	425	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	408	390
	B - Printing House Lane	409	0	280
	C - Botwell Lane (W)	303	122	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.74	1767.23	249.0	F	632	948
C-AB	0.33	8.02	0.8	A	186	278
C-A					204	307
A-B					374	562
A-C					358	537

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.022	467	0.0	12.8	69.140	F
C-AB	134	34	720	0.187	133	0.0	0.3	6.736	A
C-A	186	46			186				
A-B	307	77			307				
A-C	294	73			294				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	478	1.297	475	12.8	49.0	259.544	F
C-AB	176	44	728	0.241	175	0.3	0.5	7.165	A
C-A	206	52			206				
A-B	367	92			367				

A-C	351	88			351				
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### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.740	436	49.0	129.7	751.469	F
C-AB	245	61	741	0.331	244	0.5	0.8	7.977	A
C-A	223	56			223				
A-B	449	112			449				
A-C	429	107			429				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.741	436	129.7	210.5	1417.564	F
C-AB	246	61	742	0.331	246	0.8	0.8	8.016	A
C-A	222	56			222				
A-B	449	112			449				
A-C	429	107			429				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	477	1.298	477	210.5	246.0	1683.487	F
C-AB	176	44	729	0.242	178	0.8	0.5	7.215	A
C-A	206	51			206				
A-B	367	92			367				
A-C	351	88			351				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.023	507	246.0	249.0	1767.228	F
C-AB	135	34	721	0.187	136	0.5	0.4	6.782	A
C-A	185	46			185				
A-B	307	77			307				
A-C	294	73			294				

## 2029 Baseline, 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	96.06	F

### Junction Network Options

Driving side	Lighting
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Left	Normal/unknown
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## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1147	100.000
B - Printing House Lane		ONE HOUR	✓	355	100.000
C - Botwell Lane (W)		ONE HOUR	✓	748	100.000

## Origin-Destination Data

### Demand (PCU/hr)

From	To			
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)		0	823	324
B - Printing House Lane		212	0	143
C - Botwell Lane (W)		473	275	0

## Vehicle Mix

### Heavy Vehicle Percentages

From	To			
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)		10	10	10
B - Printing House Lane		10	10	10
C - Botwell Lane (W)		10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.25	369.81	41.4	F	326	489
C-AB	1.03	129.54	32.2	F	601	902
C-A					85	128
A-B					755	1133
A-C					297	446

## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	442	0.605	261	0.0	1.6	21.240	C
C-AB	390	97	760	0.513	383	0.0	1.7	10.442	B
C-A	174	43			174				
A-B	620	155			620				
A-C	244	61			244				

### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	395	0.807	311	1.6	3.7	42.843	E
C-AB	548	137	783	0.700	540	1.7	3.7	16.420	C
C-A	124	31			124				
A-B	740	185			740				
A-C	291	73			291				

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	329	1.189	319	3.7	21.6	171.227	F
C-AB	824	206	802	1.027	751	3.7	21.7	66.657	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	313	1.247	312	21.6	41.4	369.811	F
C-AB	824	206	804	1.024	782	21.7	32.2	129.537	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	371	0.860	362	41.4	30.8	353.265	F
C-AB	622	156	841	0.740	728	32.2	5.7	60.452	F
C-A	50	13			50				
A-B	740	185			740				
A-C	291	73			291				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
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B-AC	267	67	437	0.611	382	30.8	2.0	121.048	F
C-AB	399	100	770	0.519	415	5.7	1.8	11.769	B
C-A	164	41			164				
A-B	620	155			620				
A-C	244	61			244				

## 2029 Baseline , 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	696.23	F

### 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)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	816	100.000
B - Printing House Lane		ONE HOUR	✓	702	100.000
C - Botwell Lane (W)		ONE HOUR	✓	436	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	420	396
	B - Printing House Lane	419	0	283
	C - Botwell Lane (W)	311	125	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	10	10	10
B - Printing House Lane	10	10	10
C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.80	1935.49	272.4	F	644	966
C-AB	0.34	8.15	0.9	A	193	290
C-A					207	310
A-B					385	578
A-C					363	545

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	504	1.049	469	0.0	14.9	76.831	F
C-AB	139	35	722	0.193	138	0.0	0.4	6.773	A
C-A	189	47			189				
A-B	316	79			316				
A-C	298	75			298				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.334	471	14.9	54.9	293.078	F
C-AB	183	46	730	0.250	182	0.4	0.5	7.230	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

#### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.796	430	54.9	140.6	829.884	F
C-AB	256	64	744	0.344	255	0.5	0.9	8.110	A
C-A	224	56			224				
A-B	462	116			462				
A-C	436	109			436				



### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.335	473	226.4	266.0	1825.718	F
C-AB	183	46	731	0.251	185	0.9	0.6	7.285	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	503	1.050	503	266.0	272.4	1935.490	F
C-AB	140	35	722	0.194	141	0.6	0.4	6.827	A
C-A	188	47			188				
A-B	316	79			316				
A-C	298	75			298				

# 2029 Baseline+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	96.06	F

### 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)	Run automatically
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
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✓	✓	✓	HV Percentages	2.00
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### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1147	100.000
B - Printing House Lane		ONE HOUR	✓	355	100.000
C - Botwell Lane (W)		ONE HOUR	✓	748	100.000

## Origin-Destination Data

### Demand (PCU/hr)

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	0	823	324
B - Printing House Lane	212	0	143
C - Botwell Lane (W)	473	275	0

## Vehicle Mix

### Heavy Vehicle Percentages

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	10	10	10
B - Printing House Lane	10	10	10
C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.25	369.81	41.4	F	326	489
C-AB	1.03	129.54	32.2	F	601	902
C-A					85	128
A-B					755	1133
A-C					297	446

### Main Results for each time segment

#### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	442	0.605	261	0.0	1.6	21.240	C
C-AB	390	97	760	0.513	383	0.0	1.7	10.442	B
C-A	174	43			174				

A-B	620	155			620				
A-C	244	61			244				

#### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	395	0.807	311	1.6	3.7	42.843	E
C-AB	548	137	783	0.700	540	1.7	3.7	16.420	C
C-A	124	31			124				
A-B	740	185			740				
A-C	291	73			291				

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	329	1.189	319	3.7	21.6	171.227	F
C-AB	824	206	802	1.027	751	3.7	21.7	66.657	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	313	1.247	312	21.6	41.4	369.811	F
C-AB	824	206	804	1.024	782	21.7	32.2	129.537	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	371	0.860	362	41.4	30.8	353.265	F
C-AB	622	156	841	0.740	728	32.2	5.7	60.452	F
C-A	50	13			50				
A-B	740	185			740				
A-C	291	73			291				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	437	0.611	382	30.8	2.0	121.048	F
C-AB	399	100	770	0.519	415	5.7	1.8	11.769	B
C-A	164	41			164				
A-B	620	155			620				
A-C	244	61			244				

## 2029 Baseline+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	696.23	F

## 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)	Run automatically
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

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

## Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	816	100.000
B - Printing House Lane		ONE HOUR	✓	702	100.000
C - Botwell Lane (W)		ONE HOUR	✓	436	100.000

# Origin-Destination Data

## Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	420	396
	B - Printing House Lane	419	0	283
	C - Botwell Lane (W)	311	125	0

# Vehicle Mix

## Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

# Results

## Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.80	1935.49	272.4	F	644	966
C-AB	0.34	8.15	0.9	A	193	290
C-A					207	310
A-B					385	578
A-C					363	545

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	504	1.049	469	0.0	14.9	76.831	F
C-AB	139	35	722	0.193	138	0.0	0.4	6.773	A
C-A	189	47			189				
A-B	316	79			316				
A-C	298	75			298				

### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.334	471	14.9	54.9	293.078	F
C-AB	183	46	730	0.250	182	0.4	0.5	7.230	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.796	430	54.9	140.6	829.884	F
C-AB	256	64	744	0.344	255	0.5	0.9	8.110	A
C-A	224	56			224				
A-B	462	116			462				
A-C	436	109			436				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				

B-AC	631	158	473	1.335	473	226.4	266.0	1825.718	F
C-AB	183	46	731	0.251	185	0.9	0.6	7.285	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	503	1.050	503	266.0	272.4	1935.490	F
C-AB	140	35	722	0.194	141	0.6	0.4	6.827	A
C-A	188	47			188				
A-B	316	79			316				
A-C	298	75			298				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**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:** J3 Botwell Lane- Printing House Lane Priority Junction.j9

**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios

**Report generation date:** 23/01/2017 17:59:10

- »2016, AM
- »2016, PM
- »2024 Baseline, AM
- »2024 Baseline, PM
- »2024 Baseline+Dev, AM
- »2024 Baseline+Dev, PM
- »2029 Baseline, AM
- »2029 Baseline, PM
- »2029 Baseline+Dev, AM
- »2029 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2016</b>								
Stream B-AC	3.3	38.51	0.76	E	31.3	217.80	1.09	F
Stream C-AB	2.2	12.97	0.58	B	0.6	7.20	0.25	A
<b>2024 Baseline</b>								
Stream B-AC	33.4	301.36	1.18	F	249.0	1767.23	1.74	F
Stream C-AB	25.7	105.26	1.00	F	0.8	8.02	0.33	A
<b>2024 Baseline+Dev</b>								
Stream B-AC	33.4	301.36	1.18	F	249.0	1767.23	1.74	F
Stream C-AB	25.7	105.26	1.00	F	0.8	8.02	0.33	A
<b>2029 Baseline</b>								
Stream B-AC	41.4	369.81	1.25	F	272.4	1935.49	1.80	F
Stream C-AB	32.2	129.54	1.03	F	0.9	8.15	0.34	A
<b>2029 Baseline+Dev</b>								
Stream B-AC	41.4	369.81	1.25	F	272.4	1935.49	1.80	F
Stream C-AB	32.2	129.54	1.03	F	0.9	8.15	0.34	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	19/11/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLIDemetris Psyllides
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

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				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)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2016, 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	9.16	A

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Botwell Lane (E)		Major
B	Printing House Lane		Minor
C	Botwell Lane (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 - Botwell Lane (W)	9.60			220.0	✓	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 - Printing House Lane	One lane	4.30	122	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	609	0.094	0.236	0.149	0.338
1	B-C	736	0.095	0.240	-	-
1	C-B	701	0.229	0.229	-	-

*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)	Run automatically
D1	2016	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	909	100.000
B - Printing House Lane		ONE HOUR	✓	293	100.000
C - Botwell Lane (W)		ONE HOUR	✓	513	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	0	694	215
	B - Printing House Lane	179	0	114
	C - Botwell Lane (W)	315	198	0

## Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.76	38.51	3.3	E	269	403
C-AB	0.58	12.97	2.2	B	314	471
C-A					157	236
A-B					637	955
A-C					197	296

### Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	221	55	499	0.442	217	0.0	0.8	13.872	B
C-AB	224	56	710	0.315	221	0.0	0.7	8.080	A
C-A	162	41			162				
A-B	522	131			522				
A-C	162	40			162				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	263	66	468	0.563	261	0.8	1.4	18.995	C
C-AB	296	74	717	0.412	294	0.7	1.1	9.379	A
C-A	166	41			166				

A-B	624	156			624				
A-C	193	48			193				

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	323	81	423	0.762	316	1.4	3.0	34.800	D
C-AB	419	105	729	0.575	415	1.1	2.1	12.637	B
C-A	146	36			146				
A-B	764	191			764				
A-C	237	59			237				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	323	81	422	0.764	322	3.0	3.3	38.511	E
C-AB	421	105	731	0.576	421	2.1	2.2	12.969	B
C-A	144	36			144				
A-B	764	191			764				
A-C	237	59			237				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	263	66	467	0.565	271	3.3	1.5	20.858	C
C-AB	298	74	719	0.414	302	2.2	1.1	9.633	A
C-A	164	41			164				
A-B	624	156			624				
A-C	193	48			193				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	221	55	499	0.442	223	1.5	0.9	14.494	B
C-AB	225	56	711	0.317	227	1.1	0.7	8.231	A
C-A	161	40			161				
A-B	522	131			522				
A-C	162	40			162				

## 2016, 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	66.90	F

### 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)	Run automatically
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	673	100.000
B - Printing House Lane		ONE HOUR	✓	454	100.000
C - Botwell Lane (W)		ONE HOUR	✓	368	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	424	249
	B - Printing House Lane	339	0	115
	C - Botwell Lane (W)	266	102	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.09	217.80	31.3	F	417	625
C-AB	0.25	7.20	0.6	A	144	215
C-A					194	291
A-B					389	584
A-C					228	343

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	342	85	515	0.664	334	0.0	2.0	21.040	C
C-AB	106	27	720	0.148	105	0.0	0.3	6.433	A
C-A	171	43			171				
A-B	319	80			319				
A-C	187	47			187				

### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	408	102	490	0.832	399	2.0	4.4	39.486	E
C-AB	137	34	727	0.188	137	0.3	0.4	6.708	A
C-A	194	48			194				
A-B	381	95			381				
A-C	224	56			224				

### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	500	125	457	1.094	441	4.4	19.2	118.594	F
C-AB	187	47	738	0.253	186	0.4	0.5	7.180	A
C-A	218	55			218				
A-B	467	117			467				
A-C	274	69			274				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	500	125	457	1.095	452	19.2	31.3	217.801	F
C-AB	187	47	739	0.253	187	0.5	0.6	7.200	A
C-A	218	55			218				
A-B	467	117			467				
A-C	274	69			274				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	408	102	490	0.833	474	31.3	14.9	181.917	F
C-AB	137	34	728	0.189	138	0.6	0.4	6.733	A
C-A	194	48			194				
A-B	381	95			381				
A-C	224	56			224				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	342	85	514	0.664	392	14.9	2.4	42.557	E
C-AB	107	27	721	0.148	107	0.4	0.3	6.463	A
C-A	170	43			170				
A-B	319	80			319				
A-C	187	47			187				

## 2024 Baseline, 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	77.68	F

### 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)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1124	100.000
B - Printing House Lane		ONE HOUR	✓	347	100.000
C - Botwell Lane (W)		ONE HOUR	✓	735	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	805	319
	B - Printing House Lane	207	0	140
	C - Botwell Lane (W)	465	270	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.18	301.36	33.4	F	318	478
C-AB	1.00	105.26	25.7	F	582	873
C-A					92	138
A-B					739	1108
A-C					293	439

### Main Results for each time segment

#### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	446	0.586	255	0.0	1.5	20.213	C
C-AB	377	94	759	0.497	371	0.0	1.6	10.159	B
C-A	176	44			176				
A-B	606	152			606				
A-C	240	60			240				

#### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	401	0.778	305	1.5	3.3	38.601	E
C-AB	529	132	781	0.677	521	1.6	3.3	15.362	C
C-A	132	33			132				
A-B	724	181			724				
A-C	287	72			287				

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	336	1.138	323	3.3	18.0	146.077	F
C-AB	809	202	811	0.998	749	3.3	18.4	57.198	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	323	1.182	321	18.0	33.4	301.359	F
C-AB	809	202	812	0.996	780	18.4	25.7	105.261	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	382	0.817	370	33.4	19.0	257.609	F
C-AB	584	146	827	0.706	669	25.7	4.6	39.351	E
C-A	77	19			77				
A-B	724	181			724				
A-C	287	72			287				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	442	0.591	330	19.0	1.7	53.872	F
C-AB	385	96	766	0.503	397	4.6	1.7	11.154	B
C-A	168	42			168				
A-B	606	152			606				
A-C	240	60			240				

# 2024 Baseline , 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	637.68	F

### 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)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)
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✓	✓	✓	HV Percentages	2.00
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### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	798	100.000
B - Printing House Lane		ONE HOUR	✓	689	100.000
C - Botwell Lane (W)		ONE HOUR	✓	425	100.000

## Origin-Destination Data

### Demand (PCU/hr)

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	0	408	390
B - Printing House Lane	409	0	280
C - Botwell Lane (W)	303	122	0

## Vehicle Mix

### Heavy Vehicle Percentages

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	10	10	10
B - Printing House Lane	10	10	10
C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.74	1767.23	249.0	F	632	948
C-AB	0.33	8.02	0.8	A	186	278
C-A					204	307
A-B					374	562
A-C					358	537

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.022	467	0.0	12.8	69.140	F
C-AB	134	34	720	0.187	133	0.0	0.3	6.736	A
C-A	186	46			186				

A-B	307	77			307				
A-C	294	73			294				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	478	1.297	475	12.8	49.0	259.544	F
C-AB	176	44	728	0.241	175	0.3	0.5	7.165	A
C-A	206	52			206				
A-B	367	92			367				
A-C	351	88			351				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.740	436	49.0	129.7	751.469	F
C-AB	245	61	741	0.331	244	0.5	0.8	7.977	A
C-A	223	56			223				
A-B	449	112			449				
A-C	429	107			429				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.741	436	129.7	210.5	1417.564	F
C-AB	246	61	742	0.331	246	0.8	0.8	8.016	A
C-A	222	56			222				
A-B	449	112			449				
A-C	429	107			429				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	477	1.298	477	210.5	246.0	1683.487	F
C-AB	176	44	729	0.242	178	0.8	0.5	7.215	A
C-A	206	51			206				
A-B	367	92			367				
A-C	351	88			351				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.023	507	246.0	249.0	1767.228	F
C-AB	135	34	721	0.187	136	0.5	0.4	6.782	A
C-A	185	46			185				
A-B	307	77			307				
A-C	294	73			294				

# 2024 Baseline+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	77.68	F

## 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)	Run automatically
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

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

## Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1124	100.000
B - Printing House Lane		ONE HOUR	✓	347	100.000
C - Botwell Lane (W)		ONE HOUR	✓	735	100.000

# Origin-Destination Data

## Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	805	319
	B - Printing House Lane	207	0	140
	C - Botwell Lane (W)	465	270	0

# Vehicle Mix

## Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

# Results

## Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.18	301.36	33.4	F	318	478
C-AB	1.00	105.26	25.7	F	582	873
C-A					92	138
A-B					739	1108
A-C					293	439

## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	446	0.586	255	0.0	1.5	20.213	C
C-AB	377	94	759	0.497	371	0.0	1.6	10.159	B
C-A	176	44			176				
A-B	606	152			606				
A-C	240	60			240				

### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	401	0.778	305	1.5	3.3	38.601	E
C-AB	529	132	781	0.677	521	1.6	3.3	15.362	C
C-A	132	33			132				
A-B	724	181			724				
A-C	287	72			287				

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	336	1.138	323	3.3	18.0	146.077	F
C-AB	809	202	811	0.998	749	3.3	18.4	57.198	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	323	1.182	321	18.0	33.4	301.359	F
C-AB	809	202	812	0.996	780	18.4	25.7	105.261	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
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B-AC	312	78	382	0.817	370	33.4	19.0	257.609	F
C-AB	584	146	827	0.706	669	25.7	4.6	39.351	E
C-A	77	19			77				
A-B	724	181			724				
A-C	287	72			287				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	442	0.591	330	19.0	1.7	53.872	F
C-AB	385	96	766	0.503	397	4.6	1.7	11.154	B
C-A	168	42			168				
A-B	606	152			606				
A-C	240	60			240				

## 2024 Baseline+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	637.68	F

### 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)	Run automatically
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	798	100.000
B - Printing House Lane		ONE HOUR	✓	689	100.000
C - Botwell Lane (W)		ONE HOUR	✓	425	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	408	390
	B - Printing House Lane	409	0	280
	C - Botwell Lane (W)	303	122	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.74	1767.23	249.0	F	632	948
C-AB	0.33	8.02	0.8	A	186	278
C-A					204	307
A-B					374	562
A-C					358	537

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.022	467	0.0	12.8	69.140	F
C-AB	134	34	720	0.187	133	0.0	0.3	6.736	A
C-A	186	46			186				
A-B	307	77			307				
A-C	294	73			294				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	478	1.297	475	12.8	49.0	259.544	F
C-AB	176	44	728	0.241	175	0.3	0.5	7.165	A
C-A	206	52			206				
A-B	367	92			367				

A-C	351	88			351				
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### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.740	436	49.0	129.7	751.469	F
C-AB	245	61	741	0.331	244	0.5	0.8	7.977	A
C-A	223	56			223				
A-B	449	112			449				
A-C	429	107			429				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.741	436	129.7	210.5	1417.564	F
C-AB	246	61	742	0.331	246	0.8	0.8	8.016	A
C-A	222	56			222				
A-B	449	112			449				
A-C	429	107			429				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	477	1.298	477	210.5	246.0	1683.487	F
C-AB	176	44	729	0.242	178	0.8	0.5	7.215	A
C-A	206	51			206				
A-B	367	92			367				
A-C	351	88			351				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.023	507	246.0	249.0	1767.228	F
C-AB	135	34	721	0.187	136	0.5	0.4	6.782	A
C-A	185	46			185				
A-B	307	77			307				
A-C	294	73			294				

# 2029 Baseline, 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	96.06	F

### Junction Network Options

Driving side	Lighting
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Left	Normal/unknown
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## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1147	100.000
B - Printing House Lane		ONE HOUR	✓	355	100.000
C - Botwell Lane (W)		ONE HOUR	✓	748	100.000

## Origin-Destination Data

### Demand (PCU/hr)

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	0	823	324
B - Printing House Lane	212	0	143
C - Botwell Lane (W)	473	275	0

## Vehicle Mix

### Heavy Vehicle Percentages

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	10	10	10
B - Printing House Lane	10	10	10
C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.25	369.81	41.4	F	326	489
C-AB	1.03	129.54	32.2	F	601	902
C-A					85	128
A-B					755	1133
A-C					297	446



## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	442	0.605	261	0.0	1.6	21.240	C
C-AB	390	97	760	0.513	383	0.0	1.7	10.442	B
C-A	174	43			174				
A-B	620	155			620				
A-C	244	61			244				

### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	395	0.807	311	1.6	3.7	42.843	E
C-AB	548	137	783	0.700	540	1.7	3.7	16.420	C
C-A	124	31			124				
A-B	740	185			740				
A-C	291	73			291				

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	329	1.189	319	3.7	21.6	171.227	F
C-AB	824	206	802	1.027	751	3.7	21.7	66.657	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	313	1.247	312	21.6	41.4	369.811	F
C-AB	824	206	804	1.024	782	21.7	32.2	129.537	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	371	0.860	362	41.4	30.8	353.265	F
C-AB	622	156	841	0.740	728	32.2	5.7	60.452	F
C-A	50	13			50				
A-B	740	185			740				
A-C	291	73			291				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
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B-AC	267	67	437	0.611	382	30.8	2.0	121.048	F
C-AB	399	100	770	0.519	415	5.7	1.8	11.769	B
C-A	164	41			164				
A-B	620	155			620				
A-C	244	61			244				

## 2029 Baseline , 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	696.23	F

### 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)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	816	100.000
B - Printing House Lane		ONE HOUR	✓	702	100.000
C - Botwell Lane (W)		ONE HOUR	✓	436	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	420	396
	B - Printing House Lane	419	0	283
	C - Botwell Lane (W)	311	125	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	10	10	10
B - Printing House Lane	10	10	10
C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.80	1935.49	272.4	F	644	966
C-AB	0.34	8.15	0.9	A	193	290
C-A					207	310
A-B					385	578
A-C					363	545

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	504	1.049	469	0.0	14.9	76.831	F
C-AB	139	35	722	0.193	138	0.0	0.4	6.773	A
C-A	189	47			189				
A-B	316	79			316				
A-C	298	75			298				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.334	471	14.9	54.9	293.078	F
C-AB	183	46	730	0.250	182	0.4	0.5	7.230	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

#### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.796	430	54.9	140.6	829.884	F
C-AB	256	64	744	0.344	255	0.5	0.9	8.110	A
C-A	224	56			224				
A-B	462	116			462				
A-C	436	109			436				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.335	473	226.4	266.0	1825.718	F
C-AB	183	46	731	0.251	185	0.9	0.6	7.285	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	503	1.050	503	266.0	272.4	1935.490	F
C-AB	140	35	722	0.194	141	0.6	0.4	6.827	A
C-A	188	47			188				
A-B	316	79			316				
A-C	298	75			298				

# 2029 Baseline+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	96.06	F

### 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)	Run automatically
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

Default vehicle mix	Vehicle mix varies over turn	Vehicle mix varies over entry	Vehicle mix source	PCU Factor for a HV (PCU)

✓	✓	✓	HV Percentages	2.00
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## Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1147	100.000
B - Printing House Lane		ONE HOUR	✓	355	100.000
C - Botwell Lane (W)		ONE HOUR	✓	748	100.000

## Origin-Destination Data

### Demand (PCU/hr)

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	0	823	324
B - Printing House Lane	212	0	143
C - Botwell Lane (W)	473	275	0

## Vehicle Mix

### Heavy Vehicle Percentages

From	To		
	A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
A - Botwell Lane (E)	10	10	10
B - Printing House Lane	10	10	10
C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.25	369.81	41.4	F	326	489
C-AB	1.03	129.54	32.2	F	601	902
C-A					85	128
A-B					755	1133
A-C					297	446

### Main Results for each time segment

#### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	442	0.605	261	0.0	1.6	21.240	C
C-AB	390	97	760	0.513	383	0.0	1.7	10.442	B
C-A	174	43			174				

A-B	620	155			620				
A-C	244	61			244				

#### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	395	0.807	311	1.6	3.7	42.843	E
C-AB	548	137	783	0.700	540	1.7	3.7	16.420	C
C-A	124	31			124				
A-B	740	185			740				
A-C	291	73			291				

#### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	329	1.189	319	3.7	21.6	171.227	F
C-AB	824	206	802	1.027	751	3.7	21.7	66.657	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

#### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	313	1.247	312	21.6	41.4	369.811	F
C-AB	824	206	804	1.024	782	21.7	32.2	129.537	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

#### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	371	0.860	362	41.4	30.8	353.265	F
C-AB	622	156	841	0.740	728	32.2	5.7	60.452	F
C-A	50	13			50				
A-B	740	185			740				
A-C	291	73			291				

#### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	437	0.611	382	30.8	2.0	121.048	F
C-AB	399	100	770	0.519	415	5.7	1.8	11.769	B
C-A	164	41			164				
A-B	620	155			620				
A-C	244	61			244				

## 2029 Baseline+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	696.23	F

## 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)	Run automatically
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

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

## Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	816	100.000
B - Printing House Lane		ONE HOUR	✓	702	100.000
C - Botwell Lane (W)		ONE HOUR	✓	436	100.000

# Origin-Destination Data

## Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	420	396
	B - Printing House Lane	419	0	283
	C - Botwell Lane (W)	311	125	0

# Vehicle Mix

## Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

# Results

## Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.80	1935.49	272.4	F	644	966
C-AB	0.34	8.15	0.9	A	193	290
C-A					207	310
A-B					385	578
A-C					363	545

## Main Results for each time segment

### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	504	1.049	469	0.0	14.9	76.831	F
C-AB	139	35	722	0.193	138	0.0	0.4	6.773	A
C-A	189	47			189				
A-B	316	79			316				
A-C	298	75			298				

### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.334	471	14.9	54.9	293.078	F
C-AB	183	46	730	0.250	182	0.4	0.5	7.230	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.796	430	54.9	140.6	829.884	F
C-AB	256	64	744	0.344	255	0.5	0.9	8.110	A
C-A	224	56			224				
A-B	462	116			462				
A-C	436	109			436				

### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				

### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				



B-AC	631	158	473	1.335	473	226.4	266.0	1825.718	F
C-AB	183	46	731	0.251	185	0.9	0.6	7.285	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	503	1.050	503	266.0	272.4	1935.490	F
C-AB	140	35	722	0.194	141	0.6	0.4	6.827	A
C-A	188	47			188				
A-B	316	79			316				
A-C	298	75			298				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**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:** J3 Botwell Lane- Printing House Lane Priority Junction.j9

**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 Cumulative

**Report generation date:** 24/01/2017 10:34:25

- »2024 Baseline, AM
- »2024 Baseline , PM
- »2024 Baseline+Dev, AM
- »2024 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2024 Baseline</b>								
Stream B-AC	33.4	301.36	1.18	F	249.0	1767.23	1.74	F
Stream C-AB	25.7	105.26	1.00	F	0.8	8.02	0.33	A
<b>2024 Baseline+Dev</b>								
Stream B-AC	33.4	301.36	1.18	F	249.0	1767.23	1.74	F
Stream C-AB	25.7	105.26	1.00	F	0.8	8.02	0.33	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	19/11/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLI\Demetris Psyllides
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

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				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)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2024 Baseline, 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	77.68	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Botwell Lane (E)		Major
B	Printing House Lane		Minor
C	Botwell Lane (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 - Botwell Lane (W)	9.60			220.0	✓	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 - Printing House Lane	One lane	4.30	122	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	609	0.094	0.236	0.149	0.338
1	B-C	736	0.095	0.240	-	-
1	C-B	701	0.229	0.229	-	-

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)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1124	100.000
B - Printing House Lane		ONE HOUR	✓	347	100.000
C - Botwell Lane (W)		ONE HOUR	✓	735	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	805	319
	B - Printing House Lane	207	0	140
	C - Botwell Lane (W)	465	270	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

# Results

## Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.18	301.36	33.4	F	318	478
C-AB	1.00	105.26	25.7	F	582	873
C-A					92	138
A-B					739	1108
A-C					293	439

## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	446	0.586	255	0.0	1.5	20.213	C
C-AB	377	94	759	0.497	371	0.0	1.6	10.159	B
C-A	176	44			176				
A-B	606	152			606				
A-C	240	60			240				

### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	401	0.778	305	1.5	3.3	38.601	E
C-AB	529	132	781	0.677	521	1.6	3.3	15.362	C
C-A	132	33			132				
A-B	724	181			724				
A-C	287	72			287				

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	336	1.138	323	3.3	18.0	146.077	F
C-AB	809	202	811	0.998	749	3.3	18.4	57.198	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	323	1.182	321	18.0	33.4	301.359	F
C-AB	809	202	812	0.996	780	18.4	25.7	105.261	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	382	0.817	370	33.4	19.0	257.609	F
C-AB	584	146	827	0.706	669	25.7	4.6	39.351	E
C-A	77	19			77				
A-B	724	181			724				
A-C	287	72			287				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	442	0.591	330	19.0	1.7	53.872	F
C-AB	385	96	766	0.503	397	4.6	1.7	11.154	B
C-A	168	42			168				
A-B	606	152			606				
A-C	240	60			240				

## 2024 Baseline , 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	637.68	F

### 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)	Run automatically
D4	2024 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	798	100.000
B - Printing House Lane		ONE HOUR	✓	689	100.000
C - Botwell Lane (W)		ONE HOUR	✓	425	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	0	408	390
	B - Printing House Lane	409	0	280
	C - Botwell Lane (W)	303	122	0

## Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.74	1767.23	249.0	F	632	948
C-AB	0.33	8.02	0.8	A	186	278
C-A					204	307
A-B					374	562
A-C					358	537

### Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.022	467	0.0	12.8	69.140	F
C-AB	134	34	720	0.187	133	0.0	0.3	6.736	A
C-A	186	46			186				
A-B	307	77			307				
A-C	294	73			294				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	478	1.297	475	12.8	49.0	259.544	F
C-AB	176	44	728	0.241	175	0.3	0.5	7.165	A
C-A	206	52			206				

A-B	367	92			367				
A-C	351	88			351				

#### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.740	436	49.0	129.7	751.469	F
C-AB	245	61	741	0.331	244	0.5	0.8	7.977	A
C-A	223	56			223				
A-B	449	112			449				
A-C	429	107			429				

#### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.741	436	129.7	210.5	1417.564	F
C-AB	246	61	742	0.331	246	0.8	0.8	8.016	A
C-A	222	56			222				
A-B	449	112			449				
A-C	429	107			429				

#### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	477	1.298	477	210.5	246.0	1683.487	F
C-AB	176	44	729	0.242	178	0.8	0.5	7.215	A
C-A	206	51			206				
A-B	367	92			367				
A-C	351	88			351				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.023	507	246.0	249.0	1767.228	F
C-AB	135	34	721	0.187	136	0.5	0.4	6.782	A
C-A	185	46			185				
A-B	307	77			307				
A-C	294	73			294				

# 2024 Baseline+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	77.68	F

### 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)	Run automatically
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1124	100.000
B - Printing House Lane		ONE HOUR	✓	347	100.000
C - Botwell Lane (W)		ONE HOUR	✓	735	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	805	319
	B - Printing House Lane	207	0	140
	C - Botwell Lane (W)	465	270	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.18	301.36	33.4	F	318	478
C-AB	1.00	105.26	25.7	F	582	873
C-A					92	138
A-B					739	1108
A-C					293	439

## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	446	0.586	255	0.0	1.5	20.213	C
C-AB	377	94	759	0.497	371	0.0	1.6	10.159	B
C-A	176	44			176				
A-B	606	152			606				
A-C	240	60			240				

### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	401	0.778	305	1.5	3.3	38.601	E
C-AB	529	132	781	0.677	521	1.6	3.3	15.362	C
C-A	132	33			132				
A-B	724	181			724				
A-C	287	72			287				

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	336	1.138	323	3.3	18.0	146.077	F
C-AB	809	202	811	0.998	749	3.3	18.4	57.198	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	382	96	323	1.182	321	18.0	33.4	301.359	F
C-AB	809	202	812	0.996	780	18.4	25.7	105.261	F
C-A	0	0			0				
A-B	886	222			886				
A-C	351	88			351				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	312	78	382	0.817	370	33.4	19.0	257.609	F
C-AB	584	146	827	0.706	669	25.7	4.6	39.351	E
C-A	77	19			77				
A-B	724	181			724				
A-C	287	72			287				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	261	65	442	0.591	330	19.0	1.7	53.872	F
C-AB	385	96	766	0.503	397	4.6	1.7	11.154	B
C-A	168	42			168				
A-B	606	152			606				
A-C	240	60			240				

# 2024 Baseline+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	637.68	F

### 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)	Run automatically
D6	2024 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	798	100.000
B - Printing House Lane		ONE HOUR	✓	689	100.000
C - Botwell Lane (W)		ONE HOUR	✓	425	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	408	390
	B - Printing House Lane	409	0	280
	C - Botwell Lane (W)	303	122	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.74	1767.23	249.0	F	632	948
C-AB	0.33	8.02	0.8	A	186	278
C-A					204	307
A-B					374	562
A-C					358	537

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.022	467	0.0	12.8	69.140	F
C-AB	134	34	720	0.187	133	0.0	0.3	6.736	A
C-A	186	46			186				
A-B	307	77			307				
A-C	294	73			294				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	478	1.297	475	12.8	49.0	259.544	F
C-AB	176	44	728	0.241	175	0.3	0.5	7.165	A
C-A	206	52			206				
A-B	367	92			367				
A-C	351	88			351				

#### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.740	436	49.0	129.7	751.469	F
C-AB	245	61	741	0.331	244	0.5	0.8	7.977	A
C-A	223	56			223				
A-B	449	112			449				
A-C	429	107			429				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	759	190	436	1.741	436	129.7	210.5	1417.564	F
C-AB	246	61	742	0.331	246	0.8	0.8	8.016	A
C-A	222	56			222				
A-B	449	112			449				
A-C	429	107			429				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	619	155	477	1.298	477	210.5	246.0	1683.487	F
C-AB	176	44	729	0.242	178	0.8	0.5	7.215	A
C-A	206	51			206				
A-B	367	92			367				
A-C	351	88			351				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	519	130	507	1.023	507	246.0	249.0	1767.228	F
C-AB	135	34	721	0.187	136	0.5	0.4	6.782	A
C-A	185	46			185				
A-B	307	77			307				
A-C	294	73			294				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**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:** J3 Botwell Lane- Printing House Lane Priority Junction.j9

**Path:** C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2029 Cumulative

**Report generation date:** 24/01/2017 15:48:57

- »2029 Baseline, AM
- »2029 Baseline , PM
- »2029 Baseline+Dev, AM
- »2029 Baseline+Dev, PM

### Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
<b>2029 Baseline</b>								
Stream B-AC	41.4	369.81	1.25	F	272.4	1935.49	1.80	F
Stream C-AB	32.2	129.54	1.03	F	0.9	8.15	0.34	A
<b>2029 Baseline+Dev</b>								
Stream B-AC	41.4	369.81	1.25	F	272.4	1935.49	1.80	F
Stream C-AB	32.2	129.54	1.03	F	0.9	8.15	0.34	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	19/11/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLI\Demetris Psyllides
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

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				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)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

## Analysis Set Details

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

# 2029 Baseline, 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	96.06	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Botwell Lane (E)		Major
B	Printing House Lane		Minor
C	Botwell Lane (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 - Botwell Lane (W)	9.60			220.0	✓	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 - Printing House Lane	One lane	4.30	122	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	609	0.094	0.236	0.149	0.338
1	B-C	736	0.095	0.240	-	-
1	C-B	701	0.229	0.229	-	-

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)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1147	100.000
B - Printing House Lane		ONE HOUR	✓	355	100.000
C - Botwell Lane (W)		ONE HOUR	✓	748	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	823	324
	B - Printing House Lane	212	0	143
	C - Botwell Lane (W)	473	275	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10



# Results

## Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.25	369.81	41.4	F	326	489
C-AB	1.03	129.54	32.2	F	601	902
C-A					85	128
A-B					755	1133
A-C					297	446

## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	442	0.605	261	0.0	1.6	21.240	C
C-AB	390	97	760	0.513	383	0.0	1.7	10.442	B
C-A	174	43			174				
A-B	620	155			620				
A-C	244	61			244				

### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	395	0.807	311	1.6	3.7	42.843	E
C-AB	548	137	783	0.700	540	1.7	3.7	16.420	C
C-A	124	31			124				
A-B	740	185			740				
A-C	291	73			291				

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	329	1.189	319	3.7	21.6	171.227	F
C-AB	824	206	802	1.027	751	3.7	21.7	66.657	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	313	1.247	312	21.6	41.4	369.811	F
C-AB	824	206	804	1.024	782	21.7	32.2	129.537	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	371	0.860	362	41.4	30.8	353.265	F
C-AB	622	156	841	0.740	728	32.2	5.7	60.452	F
C-A	50	13			50				
A-B	740	185			740				
A-C	291	73			291				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	437	0.611	382	30.8	2.0	121.048	F
C-AB	399	100	770	0.519	415	5.7	1.8	11.769	B
C-A	164	41			164				
A-B	620	155			620				
A-C	244	61			244				

## 2029 Baseline , 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	696.23	F

### 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)	Run automatically
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	816	100.000
B - Printing House Lane		ONE HOUR	✓	702	100.000
C - Botwell Lane (W)		ONE HOUR	✓	436	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	0	420	396
	B - Printing House Lane	419	0	283
	C - Botwell Lane (W)	311	125	0

## Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.80	1935.49	272.4	F	644	966
C-AB	0.34	8.15	0.9	A	193	290
C-A					207	310
A-B					385	578
A-C					363	545

### Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	504	1.049	469	0.0	14.9	76.831	F
C-AB	139	35	722	0.193	138	0.0	0.4	6.773	A
C-A	189	47			189				
A-B	316	79			316				
A-C	298	75			298				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.334	471	14.9	54.9	293.078	F
C-AB	183	46	730	0.250	182	0.4	0.5	7.230	A
C-A	209	52			209				

A-B	378	94			378				
A-C	356	89			356				

#### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.796	430	54.9	140.6	829.884	F
C-AB	256	64	744	0.344	255	0.5	0.9	8.110	A
C-A	224	56			224				
A-B	462	116			462				
A-C	436	109			436				

#### 17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				

#### 17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.335	473	226.4	266.0	1825.718	F
C-AB	183	46	731	0.251	185	0.9	0.6	7.285	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

#### 18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	503	1.050	503	266.0	272.4	1935.490	F
C-AB	140	35	722	0.194	141	0.6	0.4	6.827	A
C-A	188	47			188				
A-B	316	79			316				
A-C	298	75			298				

## 2029 Baseline+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	96.06	F

### 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)	Run automatically
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	1147	100.000
B - Printing House Lane		ONE HOUR	✓	355	100.000
C - Botwell Lane (W)		ONE HOUR	✓	748	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	823	324
	B - Printing House Lane	212	0	143
	C - Botwell Lane (W)	473	275	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.25	369.81	41.4	F	326	489
C-AB	1.03	129.54	32.2	F	601	902
C-A					85	128
A-B					755	1133
A-C					297	446

## Main Results for each time segment

### 07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	442	0.605	261	0.0	1.6	21.240	C
C-AB	390	97	760	0.513	383	0.0	1.7	10.442	B
C-A	174	43			174				
A-B	620	155			620				
A-C	244	61			244				

### 08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	395	0.807	311	1.6	3.7	42.843	E
C-AB	548	137	783	0.700	540	1.7	3.7	16.420	C
C-A	124	31			124				
A-B	740	185			740				
A-C	291	73			291				

### 08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	329	1.189	319	3.7	21.6	171.227	F
C-AB	824	206	802	1.027	751	3.7	21.7	66.657	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

### 08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	391	98	313	1.247	312	21.6	41.4	369.811	F
C-AB	824	206	804	1.024	782	21.7	32.2	129.537	F
C-A	0	0			0				
A-B	906	227			906				
A-C	357	89			357				

### 08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	319	80	371	0.860	362	41.4	30.8	353.265	F
C-AB	622	156	841	0.740	728	32.2	5.7	60.452	F
C-A	50	13			50				
A-B	740	185			740				
A-C	291	73			291				

### 09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	267	67	437	0.611	382	30.8	2.0	121.048	F
C-AB	399	100	770	0.519	415	5.7	1.8	11.769	B
C-A	164	41			164				
A-B	620	155			620				
A-C	244	61			244				

## 2029 Baseline+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	696.23	F

### 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)	Run automatically
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

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

### Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Botwell Lane (E)		ONE HOUR	✓	816	100.000
B - Printing House Lane		ONE HOUR	✓	702	100.000
C - Botwell Lane (W)		ONE HOUR	✓	436	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	0	420	396
	B - Printing House Lane	419	0	283
	C - Botwell Lane (W)	311	125	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Botwell Lane (E)	B - Printing House Lane	C - Botwell Lane (W)
From	A - Botwell Lane (E)	10	10	10
	B - Printing House Lane	10	10	10
	C - Botwell Lane (W)	10	10	10

## Results

### Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	1.80	1935.49	272.4	F	644	966
C-AB	0.34	8.15	0.9	A	193	290
C-A					207	310
A-B					385	578
A-C					363	545

### Main Results for each time segment

#### 16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	504	1.049	469	0.0	14.9	76.831	F
C-AB	139	35	722	0.193	138	0.0	0.4	6.773	A
C-A	189	47			189				
A-B	316	79			316				
A-C	298	75			298				

#### 17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.334	471	14.9	54.9	293.078	F
C-AB	183	46	730	0.250	182	0.4	0.5	7.230	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

#### 17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.796	430	54.9	140.6	829.884	F
C-AB	256	64	744	0.344	255	0.5	0.9	8.110	A
C-A	224	56			224				
A-B	462	116			462				
A-C	436	109			436				



17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	773	193	430	1.797	430	140.6	226.4	1547.995	F
C-AB	257	64	745	0.345	257	0.9	0.9	8.153	A
C-A	223	56			223				
A-B	462	116			462				
A-C	436	109			436				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	631	158	473	1.335	473	226.4	266.0	1825.718	F
C-AB	183	46	731	0.251	185	0.9	0.6	7.285	A
C-A	209	52			209				
A-B	378	94			378				
A-C	356	89			356				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	529	132	503	1.050	503	266.0	272.4	1935.490	F
C-AB	140	35	722	0.194	141	0.6	0.4	6.827	A
C-A	188	47			188				
A-B	316	79			316				
A-C	298	75			298				