

# Junctions 9

## PICADY 9 - Priority Intersection Module

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**Filename:** J1 - Dawley Rd- Botwell Common Rd 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 17:01:42

- »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-C	18.0	174.82	1.06	F	1.1	24.21	0.52	C
Stream B-A	9.3	225.88	1.02	F	2.1	59.18	0.68	F
Stream C-AB	0.8	14.44	0.42	B	2.2	21.00	0.64	C
<b>2024 Baseline</b>								
Stream B-C	172.8	1887.35	2.10	F	70.2	1793.93	2.16	F
Stream B-A	66.5	1931.96	2.08	F	67.5	1795.49	2.16	F
Stream C-AB	2.7	24.01	0.67	C	19.7	46.85	0.92	E
<b>2024 Baseline+Dev</b>								
Stream B-C	173.4	1903.13	2.11	F	76.3	2070.06	2.34	F
Stream B-A	66.8	1947.86	2.09	F	73.3	2071.59	2.34	F
Stream C-AB	2.7	23.55	0.66	C	22.8	54.92	0.94	F
<b>2029 Baseline</b>								
Stream B-C	189.2	2148.29	2.23	F	82.5	2284.53	2.48	F
Stream B-A	73.2	2192.56	2.21	F	79.4	2285.97	2.48	F
Stream C-AB	3.1	24.93	0.69	C	27.5	71.18	0.96	F
<b>2029 Baseline+Dev</b>								
Stream B-C	189.7	2162.58	2.24	F	89.4	2691.61	2.74	F
Stream B-A	73.4	2206.99	2.22	F	86.0	2693.12	2.74	F

Stream C-AB	3.0	24.39	0.69	C	32.3	91.80	0.97	F
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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	46.54	E

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

# Arms

## Arms

Arm	Name	Description	Arm type
A	Dawley Rd (N)		Major
B	Botwell Common Rod		Minor
C	Dawley Rd (S)		Major

## Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Dawley Rd (S)	9.60		✓	2.20	150.0	✓	5.00

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

## Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Botwell Common Rod	One lane plus flare	10.00	6.50	5.00	4.00	3.80		1.00	160	88

## 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	564	0.087	0.219	0.138	0.313
1	B-C	772	0.100	0.252	-	-
1	C-B	661	0.216	0.216	-	-

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 - Dawley Rd (N)		ONE HOUR	✓	836	100.000
B - Botwell Common Rod		ONE HOUR	✓	467	100.000
C - Dawley Rd (S)		ONE HOUR	✓	659	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	204	632
	B - Botwell Common Rod	139	0	328
	C - Dawley Rd (S)	483	176	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	1.06	174.82	18.0	F	301	451
B-A	1.02	225.88	9.3	F	128	191
C-AB	0.42	14.44	0.8	B	163	245
C-A					441	662
A-B					187	281
A-C					580	870

### 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-C	247	62	565	0.437	244	0.0	0.8	12.192	B
B-A	105	26	326	0.321	103	0.0	0.5	17.544	C
C-AB	133	33	526	0.252	131	0.0	0.4	10.004	B
C-A	363	91			363				

A-B	154	38			154				
A-C	476	119			476				

**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-C	295	74	494	0.597	292	0.8	1.6	19.356	C
B-A	125	31	259	0.483	123	0.5	1.0	28.756	D
C-AB	159	40	501	0.317	158	0.4	0.5	11.544	B
C-A	433	108			433				
A-B	183	46			183				
A-C	568	142			568				

**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-C	361	90	352	1.025	324	1.6	10.8	93.089	F
B-A	153	38	150	1.017	131	1.0	6.4	140.983	F
C-AB	198	50	472	0.419	197	0.5	0.8	14.326	B
C-A	527	132			527				
A-B	225	56			225				
A-C	696	174			696				

**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-C	361	90	342	1.056	332	10.8	18.0	174.819	F
B-A	153	38	151	1.012	142	6.4	9.3	225.875	F
C-AB	198	50	472	0.419	198	0.8	0.8	14.439	B
C-A	527	132			527				
A-B	225	56			225				
A-C	696	174			696				

**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-C	295	74	423	0.697	355	18.0	2.9	79.032	F
B-A	125	31	203	0.615	154	9.3	2.1	99.031	F
C-AB	159	40	501	0.317	160	0.8	0.5	11.658	B
C-A	433	108			433				
A-B	183	46			183				
A-C	568	142			568				

**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-C	247	62	555	0.445	255	2.9	0.9	13.542	B
B-A	105	26	321	0.326	111	2.1	0.5	19.299	C
C-AB	133	33	526	0.252	133	0.5	0.4	10.109	B
C-A	363	91			363				
A-B	154	38			154				
A-C	476	119			476				

# 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	7.93	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Dawley Rd (N)		ONE HOUR	✓	966	100.000
B - Botwell Common Rod		ONE HOUR	✓	285	100.000
C - Dawley Rd (S)		ONE HOUR	✓	906	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	483	483
	B - Botwell Common Rod	126	0	159
	C - Dawley Rd (S)	656	250	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	0.52	24.21	1.1	C	146	219
B-A	0.68	59.18	2.1	F	116	173
C-AB	0.64	21.00	2.2	C	253	380
C-A					578	867
A-B					443	665
A-C					443	665

## 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-C	120	30	556	0.215	119	0.0	0.3	9.022	A
B-A	95	24	339	0.279	93	0.0	0.4	15.975	C
C-AB	190	48	509	0.374	188	0.0	0.6	12.217	B
C-A	492	123			492				
A-B	364	91			364				
A-C	364	91			364				

### 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-C	143	36	496	0.288	142	0.3	0.4	11.165	B
B-A	113	28	285	0.397	112	0.4	0.7	22.712	C
C-AB	234	59	493	0.475	233	0.6	1.0	15.136	C
C-A	580	145			580				
A-B	434	109			434				
A-C	434	109			434				

### 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-C	175	44	354	0.495	173	0.4	1.0	21.607	C
B-A	139	35	206	0.674	134	0.7	1.9	51.902	F
C-AB	335	84	525	0.638	331	1.0	2.1	20.145	C
C-A	662	166			662				
A-B	532	133			532				
A-C	532	133			532				

### 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-C	175	44	338	0.519	175	1.0	1.1	24.208	C
B-A	139	35	203	0.683	138	1.9	2.1	59.181	F

C-AB	335	84	525	0.638	335	2.1	2.2	21.000	C
C-A	662	166			662				
A-B	532	133			532				
A-C	532	133			532				

#### 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-C	143	36	485	0.295	146	1.1	0.5	11.749	B
B-A	113	28	283	0.400	119	2.1	0.8	24.784	C
C-AB	234	59	493	0.475	239	2.2	1.1	15.853	C
C-A	580	145			580				
A-B	434	109			434				
A-C	434	109			434				

#### 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-C	120	30	553	0.217	120	0.5	0.3	9.174	A
B-A	95	24	338	0.280	96	0.8	0.4	16.439	C
C-AB	190	48	509	0.374	192	1.1	0.7	12.537	B
C-A	492	123			492				
A-B	364	91			364				
A-C	364	91			364				

## 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	422.48	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 - Dawley Rd (N)		ONE HOUR	✓	1187	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	940	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	907
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	710	230	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.10	1887.35	172.8	F	401	601
B-A	2.08	1931.96	66.5	F	153	230
C-AB	0.67	24.01	2.7	C	243	365
C-A					619	929
A-B					257	385
A-C					832	1248

### 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-C	329	82	433	0.760	317	0.0	3.0	31.550	D
B-A	126	31	191	0.657	119	0.0	1.8	50.597	F
C-AB	175	44	474	0.370	173	0.0	0.6	13.055	B
C-A	532	133			532				

A-B	211	53			211				
A-C	683	171			683				

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-C	393	98	317	1.238	309	3.0	24.0	198.548	F
B-A	150	38	123	1.218	115	1.8	10.6	261.470	F
C-AB	218	54	453	0.480	216	0.6	1.0	16.617	C
C-A	627	157			627				
A-B	252	63			252				
A-C	815	204			815				

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-C	481	120	229	2.103	229	24.0	87.2	883.747	F
B-A	184	46	90	2.052	89	10.6	34.2	948.574	F
C-AB	337	84	504	0.669	331	1.0	2.5	22.593	C
C-A	698	174			698				
A-B	308	77			308				
A-C	999	250			999				

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-C	481	120	229	2.101	229	87.2	150.2	1887.354	F
B-A	184	46	89	2.077	88	34.2	58.1	1931.963	F
C-AB	337	84	504	0.669	337	2.5	2.7	24.011	C
C-A	698	174			698				
A-B	308	77			308				
A-C	999	250			999				

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-C	393	98	303	1.298	303	150.2	172.8	1807.522	F
B-A	150	38	117	1.288	116	58.1	66.5	1835.828	F
C-AB	218	54	453	0.480	224	2.7	1.1	17.764	C
C-A	627	157			627				
A-B	252	63			252				
A-C	815	204			815				

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-C	329	82	346	0.951	344	172.8	169.1	1791.084	F
B-A	126	31	133	0.947	131	66.5	65.3	1816.172	F
C-AB	175	44	474	0.370	177	1.1	0.7	13.432	B
C-A	532	133			532				
A-B	211	53			211				
A-C	683	171			683				

# 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	269.95	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 - Dawley Rd (N)		ONE HOUR	✓	1092	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1310	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	573
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	974	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.16	1793.93	70.2	F	190	285
B-A	2.16	1795.49	67.5	F	183	274
C-AB	0.92	46.85	19.7	E	575	863
C-A					627	940
A-B					476	714
A-C					526	789

## 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-C	156	39	421	0.370	153	0.0	0.6	14.649	B
B-A	150	37	260	0.577	144	0.0	1.4	32.997	D
C-AB	273	68	522	0.523	268	0.0	1.2	15.361	C
C-A	713	178			713				
A-B	391	98			391				
A-C	431	108			431				

### 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-C	186	47	182	1.024	160	0.6	7.2	131.596	F
B-A	179	45	178	1.007	157	1.4	6.9	138.235	F
C-AB	399	100	594	0.673	394	1.2	2.6	19.671	C
C-A	778	195			778				
A-B	467	117			467				
A-C	515	129			515				

### 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-C	228	57	114	2.006	113	7.2	36.0	752.168	F
B-A	219	55	109	2.009	108	6.9	34.6	752.803	F
C-AB	1054	263	1143	0.922	1007	2.6	14.3	29.488	D
C-A	388	97			388				
A-B	571	143			571				
A-C	631	158			631				

### 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-C	228	57	106	2.156	106	36.0	66.6	1793.934	F
B-A	219	55	102	2.157	101	34.6	64.0	1795.491	F

C-AB	1054	263	1143	0.922	1032	14.3	19.7	46.853	E
C-A	388	97			388				
A-B	571	143			571				
A-C	631	158			631				

#### 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-C	186	47	172	1.082	172	66.6	70.2	1335.577	F
B-A	179	45	165	1.082	165	64.0	67.5	1336.408	F
C-AB	399	100	594	0.673	464	19.7	3.4	45.230	E
C-A	778	195			778				
A-B	467	117			467				
A-C	515	129			515				

#### 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-C	156	39	222	0.703	218	70.2	54.6	1031.531	F
B-A	150	37	213	0.703	210	67.5	52.5	1032.538	F
C-AB	273	68	522	0.523	281	3.4	1.4	17.049	C
C-A	713	178			713				
A-B	391	98			391				
A-C	431	108			431				

## 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	423.29	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 - Dawley Rd (N)		ONE HOUR	✓	1177	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	967	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	897
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	737	230	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.11	1903.13	173.4	F	401	601
B-A	2.09	1947.86	66.8	F	153	230
C-AB	0.66	23.55	2.7	C	244	365
C-A					644	966
A-B					257	385
A-C					823	1235

### 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-C	329	82	433	0.759	317	0.0	3.0	31.437	D
B-A	126	31	191	0.659	119	0.0	1.8	50.832	F
C-AB	175	44	475	0.369	173	0.0	0.6	12.983	B
C-A	553	138			553				

A-B	211	53			211				
A-C	675	169			675				

**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-C	393	98	317	1.240	308	3.0	24.1	199.476	F
B-A	150	38	123	1.219	115	1.8	10.6	262.648	F
C-AB	218	54	456	0.478	216	0.6	1.0	16.469	C
C-A	651	163			651				
A-B	252	63			252				
A-C	806	202			806				

**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-C	481	120	228	2.112	228	24.1	87.5	890.200	F
B-A	184	46	89	2.061	89	10.6	34.4	955.052	F
C-AB	337	84	508	0.665	332	1.0	2.5	22.203	C
C-A	727	182			727				
A-B	308	77			308				
A-C	988	247			988				

**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-C	481	120	228	2.111	228	87.5	150.8	1903.128	F
B-A	184	46	88	2.086	88	34.4	58.3	1947.856	F
C-AB	337	84	508	0.665	337	2.5	2.7	23.546	C
C-A	727	182			727				
A-B	308	77			308				
A-C	988	247			988				

**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-C	393	98	303	1.298	303	150.8	173.4	1812.950	F
B-A	150	38	117	1.288	116	58.3	66.8	1841.220	F
C-AB	218	54	456	0.478	224	2.7	1.1	17.570	C
C-A	651	163			651				
A-B	252	63			252				
A-C	806	202			806				

**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-C	329	82	346	0.951	344	173.4	169.6	1795.422	F
B-A	126	31	133	0.946	131	66.8	65.5	1820.478	F
C-AB	175	44	475	0.369	177	1.1	0.7	13.353	B
C-A	553	138			553				
A-B	211	53			211				
A-C	675	169			675				

# 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	308.60	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 - Dawley Rd (N)		ONE HOUR	✓	1119	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1316	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	600
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	980	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.34	2070.06	76.3	F	190	285
B-A	2.34	2071.59	73.3	F	183	274
C-AB	0.94	54.92	22.8	F	601	902
C-A					606	910
A-B					476	714
A-C					551	826

## 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-C	156	39	412	0.379	153	0.0	0.7	15.177	C
B-A	150	37	254	0.590	144	0.0	1.4	34.529	D
C-AB	274	69	519	0.528	269	0.0	1.3	15.575	C
C-A	716	179			716				
A-B	391	98			391				
A-C	452	113			452				

### 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-C	186	47	176	1.055	157	0.7	8.0	145.319	F
B-A	179	45	173	1.037	154	1.4	7.6	152.810	F
C-AB	407	102	597	0.681	401	1.3	2.7	19.987	C
C-A	776	194			776				
A-B	467	117			467				
A-C	539	135			539				

### 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-C	228	57	107	2.138	106	8.0	38.4	848.007	F
B-A	219	55	102	2.141	102	7.6	36.9	848.393	F
C-AB	1122	281	1198	0.937	1069	2.7	16.2	31.064	D
C-A	327	82			327				
A-B	571	143			571				
A-C	661	165			661				

### 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-C	228	57	98	2.337	97	38.4	71.0	2070.061	F
B-A	219	55	94	2.338	94	36.9	68.3	2071.594	F

C-AB	1122	281	1198	0.937	1096	16.2	22.8	52.144	F
C-A	327	82			327				
A-B	571	143			571				
A-C	661	165			661				

#### 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-C	186	47	165	1.124	165	71.0	76.3	1456.080	F
B-A	179	45	159	1.125	159	68.3	73.3	1456.867	F
C-AB	407	102	597	0.681	483	22.8	3.7	54.916	F
C-A	776	194			776				
A-B	467	117			467				
A-C	539	135			539				

#### 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-C	156	39	218	0.715	215	76.3	61.5	1155.612	F
B-A	150	37	210	0.715	207	73.3	59.1	1156.581	F
C-AB	274	69	519	0.528	283	3.7	1.4	17.441	C
C-A	716	179			716				
A-B	391	98			391				
A-C	452	113			452				

## 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	481.05	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
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 - Dawley Rd (N)		ONE HOUR	✓	1209	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	956	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	924
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	722	234	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.23	2148.29	189.2	F	408	613
B-A	2.21	2192.56	73.2	F	157	235
C-AB	0.69	24.93	3.1	C	254	381
C-A					624	935
A-B					262	392
A-C					848	1272

### 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-C	335	84	418	0.802	320	0.0	3.6	36.720	E
B-A	129	32	180	0.714	120	0.0	2.2	59.422	F
C-AB	179	45	471	0.379	176	0.0	0.7	13.316	B
C-A	541	135			541				

A-B	215	54			215				
A-C	696	174			696				

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-C	400	100	308	1.299	302	3.6	28.2	237.207	F
B-A	154	38	121	1.274	114	2.2	12.1	301.570	F
C-AB	223	56	452	0.494	222	0.7	1.1	17.063	C
C-A	636	159			636				
A-B	256	64			256				
A-C	831	208			831				

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-C	490	122	220	2.229	220	28.2	95.8	1010.302	F
B-A	188	47	86	2.183	86	12.1	37.7	1071.672	F
C-AB	359	90	521	0.690	352	1.1	2.8	23.199	C
C-A	693	173			693				
A-B	314	78			314				
A-C	1017	254			1017				

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-C	490	122	219	2.233	219	95.8	163.4	2148.293	F
B-A	188	47	85	2.211	85	37.7	63.5	2192.561	F
C-AB	359	90	521	0.690	358	2.8	3.1	24.927	C
C-A	693	173			693				
A-B	314	78			314				
A-C	1017	254			1017				

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-C	400	100	297	1.348	297	163.4	189.2	1990.906	F
B-A	154	38	115	1.339	115	63.5	73.2	2018.683	F
C-AB	223	56	452	0.494	231	3.1	1.2	18.477	C
C-A	636	159			636				
A-B	256	64			256				
A-C	831	208			831				

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-C	335	84	341	0.981	339	189.2	188.1	2000.964	F
B-A	129	32	132	0.977	130	73.2	72.8	2025.524	F
C-AB	179	45	471	0.379	181	1.2	0.7	13.738	B
C-A	541	135			541				
A-B	215	54			215				
A-C	696	174			696				

# 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	347.47	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 - Dawley Rd (N)		ONE HOUR	✓	1118	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1335	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	586
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	992	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.48	2284.53	82.5	F	194	290
B-A	2.48	2285.97	79.4	F	186	279
C-AB	0.96	71.18	27.5	F	646	969
C-A					579	869
A-B					488	732
A-C					538	807

## 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-C	159	40	404	0.393	156	0.0	0.7	15.778	C
B-A	153	38	251	0.608	147	0.0	1.5	36.042	E
C-AB	282	71	524	0.539	277	0.0	1.3	15.768	C
C-A	723	181			723				
A-B	401	100			401				
A-C	441	110			441				

### 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-C	190	47	175	1.086	157	0.7	8.8	158.224	F
B-A	182	46	171	1.066	155	1.5	8.4	166.524	F
C-AB	427	107	614	0.695	420	1.3	2.9	20.244	C
C-A	773	193			773				
A-B	478	120			478				
A-C	527	132			527				

### 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-C	232	58	105	2.223	104	8.8	40.9	919.650	F
B-A	224	56	100	2.226	100	8.4	39.3	919.787	F
C-AB	1229	307	1285	0.956	1165	2.9	18.9	33.233	D
C-A	241	60			241				
A-B	586	146			586				
A-C	645	161			645				

### 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-C	232	58	94	2.477	94	40.9	75.5	2284.530	F
B-A	224	56	90	2.478	90	39.3	72.6	2285.967	F

C-AB	1229	307	1285	0.956	1194	18.9	27.5	61.185	F
C-A	241	60			241				
A-B	586	146			586				
A-C	645	161			645				

#### 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-C	190	47	162	1.172	162	75.5	82.5	1563.044	F
B-A	182	46	156	1.173	155	72.6	79.4	1563.771	F
C-AB	427	107	614	0.695	520	27.5	4.1	71.184	F
C-A	773	193			773				
A-B	478	120			478				
A-C	527	132			527				

#### 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-C	159	40	217	0.732	214	82.5	68.7	1272.856	F
B-A	153	38	209	0.732	206	79.4	66.1	1273.769	F
C-AB	282	71	524	0.539	293	4.1	1.5	17.927	C
C-A	723	181			723				
A-B	401	100			401				
A-C	441	110			441				

## 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	481.40	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 - Dawley Rd (N)		ONE HOUR	✓	1198	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	983	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	913
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	749	234	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.24	2162.58	189.7	F	408	613
B-A	2.22	2206.99	73.4	F	157	235
C-AB	0.69	24.39	3.0	C	254	381
C-A					648	972
A-B					262	392
A-C					838	1257

### 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-C	335	84	418	0.801	321	0.0	3.6	36.523	E
B-A	129	32	180	0.714	120	0.0	2.2	59.528	F
C-AB	179	45	473	0.378	176	0.0	0.7	13.234	B
C-A	561	140			561				



A-B	215	54			215				
A-C	687	172			687				

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-C	400	100	308	1.300	301	3.6	28.3	237.752	F
B-A	154	38	121	1.274	114	2.2	12.1	302.374	F
C-AB	223	56	455	0.491	222	0.7	1.1	16.892	C
C-A	660	165			660				
A-B	256	64			256				
A-C	821	205			821				

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-C	490	122	219	2.238	219	28.3	96.0	1015.549	F
B-A	188	47	86	2.192	86	12.1	37.8	1076.983	F
C-AB	359	90	524	0.685	352	1.1	2.8	22.760	C
C-A	723	181			723				
A-B	314	78			314				
A-C	1005	251			1005				

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-C	490	122	219	2.242	219	96.0	163.9	2162.583	F
B-A	188	47	85	2.219	85	37.8	63.6	2206.987	F
C-AB	359	90	524	0.685	358	2.8	3.0	24.388	C
C-A	723	181			723				
A-B	314	78			314				
A-C	1005	251			1005				

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-C	400	100	297	1.347	297	163.9	189.7	1993.944	F
B-A	154	38	115	1.338	115	63.6	73.4	2021.691	F
C-AB	223	56	455	0.491	231	3.0	1.2	18.245	C
C-A	660	165			660				
A-B	256	64			256				
A-C	821	205			821				

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-C	335	84	342	0.980	340	189.7	188.5	2002.590	F
B-A	129	32	132	0.975	131	73.4	72.7	2027.119	F
C-AB	179	45	473	0.378	181	1.2	0.7	13.644	B
C-A	561	140			561				
A-B	215	54			215				
A-C	687	172			687				

# 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	407.65	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 - Dawley Rd (N)		ONE HOUR	✓	1146	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1341	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	614
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	998	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.74	2691.61	89.4	F	194	290
B-A	2.74	2693.12	86.0	F	186	279
C-AB	0.97	91.80	32.3	F	679	1019
C-A					551	827
A-B					488	732
A-C					563	845

## 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-C	159	40	394	0.403	156	0.0	0.7	16.456	C
B-A	153	38	245	0.623	146	0.0	1.6	37.923	E
C-AB	284	71	522	0.544	278	0.0	1.4	15.993	C
C-A	726	181			726				
A-B	401	100			401				
A-C	462	116			462				

### 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-C	190	47	169	1.122	154	0.7	9.7	176.787	F
B-A	182	46	166	1.100	152	1.6	9.2	186.284	F
C-AB	436	109	620	0.703	429	1.4	3.1	20.582	C
C-A	770	192			770				
A-B	478	120			478				
A-C	552	138			552				

### 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-C	232	58	97	2.392	97	9.7	43.6	1043.090	F
B-A	224	56	93	2.396	93	9.2	41.9	1043.164	F
C-AB	1319	330	1356	0.972	1245	3.1	21.5	35.601	E
C-A	158	39			158				
A-B	586	146			586				
A-C	676	169			676				

### 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-C	232	58	85	2.743	85	43.6	80.5	2691.605	F
B-A	224	56	81	2.745	81	41.9	77.4	2693.118	F

C-AB	1319	330	1356	0.972	1275	21.5	32.3	69.792	F
C-A	158	39			158				
A-B	586	146			586				
A-C	676	169			676				

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-C	190	47	154	1.230	154	80.5	89.4	1707.114	F
B-A	182	46	148	1.231	148	77.4	86.0	1707.815	F
C-AB	436	109	620	0.703	547	32.3	4.4	91.797	F
C-A	770	192			770				
A-B	478	120			478				
A-C	552	138			552				

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-C	159	40	213	0.745	211	89.4	76.5	1419.976	F
B-A	153	38	205	0.745	202	86.0	73.6	1420.872	F
C-AB	284	71	522	0.544	296	4.4	1.5	18.426	C
C-A	726	181			726				
A-B	401	100			401				
A-C	462	116			462				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J1 - Dawley Rd- Botwell Common Rd Priority Junction mitigation.j9  
**Path:** C:\Users\Jenny Baker\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 Cumulative  
**Report generation date:** 25/01/2017 16:38:18

- »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-C	128.8	1277.60	1.81	F	63.1	1691.07	2.20	F
Stream B-A	49.8	1322.17	1.77	F	61.3	1706.20	2.17	F
Stream C-AB	2.8	24.04	0.67	C	22.1	52.19	0.93	F
<b>2024 Baseline+Dev</b>								
Stream B-C	137.8	1426.48	1.90	F	73.6	2201.83	2.54	F
Stream B-A	53.3	1472.02	1.86	F	71.3	2214.86	2.51	F
Stream C-AB	2.9	24.16	0.68	C	26.6	67.71	0.95	F

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	284.92	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Dawley Rd (N)		Major
B	Botwell Common Rod		Minor
C	Dawley Rd (S)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Dawley Rd (S)	9.60		✓	2.20	150.0	✓	5.00

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

## Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Botwell Common Rod	One lane plus flare	10.00	6.50	6.50	6.50	3.80	✓	3.00	160	88

## 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	552	0.085	0.214	0.135	0.306
1	B-C	787	0.102	0.257	-	-
1	C-B	661	0.216	0.216	-	-

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 - Dawley Rd (N)		ONE HOUR	✓	1194	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	959	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	914
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	729	230	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To		
	A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
A - Dawley Rd (N)	10	10	10
B - Botwell Common Rod	10	10	10
C - Dawley Rd (S)	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-C	1.81	1277.60	128.8	F	401	601
B-A	1.77	1322.17	49.8	F	153	230
C-AB	0.67	24.04	2.8	C	245	368
C-A					635	952
A-B					257	385
A-C					839	1258

### 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-C	329	82	504	0.653	321	0.0	1.9	20.879	C
B-A	126	31	241	0.521	121	0.0	1.1	31.947	D
C-AB	175	44	473	0.371	173	0.0	0.6	13.093	B
C-A	547	137			547				
A-B	211	53			211				
A-C	688	172			688				

#### 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-C	393	98	377	1.042	351	1.9	12.3	100.136	F
B-A	150	38	146	1.032	128	1.1	6.7	156.963	F
C-AB	218	55	453	0.482	217	0.6	1.0	16.679	C
C-A	644	161			644				
A-B	252	63			252				
A-C	822	205			822				

#### 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-C	481	120	265	1.813	265	12.3	66.4	557.816	F
B-A	184	46	105	1.745	104	6.7	26.6	631.440	F
C-AB	342	85	509	0.672	335	1.0	2.6	22.585	C



C-A	714	179			714				
A-B	308	77			308				
A-C	1006	252			1006				

#### 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-C	481	120	267	1.804	267	66.4	120.0	1277.603	F
B-A	184	46	104	1.774	103	26.6	46.7	1322.165	F
C-AB	342	85	509	0.672	341	2.6	2.8	24.043	C
C-A	714	179			714				
A-B	308	77			308				
A-C	1006	252			1006				

#### 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-C	393	98	358	1.097	358	120.0	128.8	1223.484	F
B-A	150	38	138	1.087	138	46.7	49.8	1249.633	F
C-AB	218	55	453	0.482	225	2.8	1.1	17.869	C
C-A	644	161			644				
A-B	252	63			252				
A-C	822	205			822				

#### 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-C	329	82	405	0.813	401	128.8	110.7	1075.800	F
B-A	126	31	156	0.807	152	49.8	43.1	1100.433	F
C-AB	175	44	473	0.371	177	1.1	0.7	13.481	B
C-A	547	137			547				
A-B	211	53			211				
A-C	688	172			688				

## 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	254.59	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 - Dawley Rd (N)		ONE HOUR	✓	1112	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1324	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	593
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	988	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.20	1691.07	63.1	F	190	285
B-A	2.17	1706.20	61.3	F	183	274
C-AB	0.93	52.19	22.1	F	597	896
C-A					618	927
A-B					476	714
A-C					544	816

### 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-C	156	39	487	0.320	154	0.0	0.5	11.814	B
B-A	150	37	271	0.553	145	0.0	1.3	30.303	D
C-AB	274	69	520	0.527	269	0.0	1.3	15.507	C
C-A	723	181			723				
A-B	391	98			391				
A-C	446	112			446				

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-C	186	47	268	0.694	179	0.5	2.2	41.998	E
B-A	179	45	200	0.896	165	1.3	4.7	92.309	F
C-AB	406	101	598	0.679	400	1.3	2.7	19.858	C
C-A	785	196			785				
A-B	467	117			467				
A-C	533	133			533				

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-C	228	57	111	2.052	109	2.2	31.8	618.764	F
B-A	219	55	112	1.963	110	4.7	31.8	666.275	F
C-AB	1111	278	1191	0.933	1059	2.7	15.8	30.485	D
C-A	347	87			347				
A-B	571	143			571				
A-C	653	163			653				

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-C	228	57	104	2.197	104	31.8	62.9	1691.071	F
B-A	219	55	101	2.166	101	31.8	61.3	1706.199	F
C-AB	1111	278	1191	0.933	1086	15.8	22.1	50.518	F
C-A	347	87			347				
A-B	571	143			571				
A-C	653	163			653				

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-C	186	47	187	0.992	185	62.9	63.1	1144.021	F
B-A	179	45	182	0.984	179	61.3	61.3	1147.588	F
C-AB	406	101	598	0.679	480	22.1	3.6	52.194	F
C-A	785	196			785				
A-B	467	117			467				
A-C	533	133			533				

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
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B-C	156	39	256	0.608	252	63.1	39.0	734.321	F
B-A	150	37	248	0.604	244	61.3	37.8	737.088	F
C-AB	274	69	520	0.527	283	3.6	1.4	17.329	C
C-A	723	181			723				
A-B	391	98			391				
A-C	446	112			446				

## 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	312.21	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 - Dawley Rd (N)		ONE HOUR	✓	1209	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	992	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	929
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	762	230	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To		
	A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
A - Dawley Rd (N)	10	10	10
B - Botwell Common Rod	10	10	10
C - Dawley Rd (S)	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-C	1.90	1426.48	137.8	F	401	601
B-A	1.86	1472.02	53.3	F	153	230
C-AB	0.68	24.16	2.9	C	248	373
C-A					662	993
A-B					257	385
A-C					852	1279

### 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-C	329	82	499	0.660	321	0.0	2.0	21.440	C
B-A	126	31	235	0.534	121	0.0	1.2	33.493	D
C-AB	176	44	471	0.373	173	0.0	0.6	13.191	B
C-A	571	143			571				
A-B	211	53			211				
A-C	699	175			699				

#### 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-C	393	98	369	1.066	346	2.0	13.6	110.455	F
B-A	150	38	142	1.055	126	1.2	7.1	168.626	F
C-AB	219	55	452	0.485	218	0.6	1.1	16.819	C
C-A	673	168			673				
A-B	252	63			252				
A-C	835	209			835				

#### 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-C	481	120	253	1.902	252	13.6	70.8	623.769	F
B-A	184	46	100	1.833	99	7.1	28.2	697.691	F
C-AB	351	88	517	0.678	344	1.1	2.7	22.611	C

C-A	742	185			742				
A-B	308	77			308				
A-C	1023	256			1023				

#### 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-C	481	120	254	1.894	254	70.8	127.6	1426.478	F
B-A	184	46	99	1.864	98	28.2	49.6	1472.022	F
C-AB	351	88	517	0.678	350	2.7	2.9	24.165	C
C-A	742	185			742				
A-B	308	77			308				
A-C	1023	256			1023				

#### 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-C	393	98	352	1.116	352	127.6	137.8	1314.240	F
B-A	150	38	136	1.105	135	49.6	53.3	1340.439	F
C-AB	219	55	452	0.485	226	2.9	1.1	18.106	C
C-A	673	168			673				
A-B	252	63			252				
A-C	835	209			835				

#### 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-C	329	82	401	0.821	398	137.8	120.6	1170.676	F
B-A	126	31	154	0.815	151	53.3	46.9	1194.938	F
C-AB	176	44	471	0.373	177	1.1	0.7	13.590	B
C-A	571	143			571				
A-B	211	53			211				
A-C	699	175			699				

## 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	325.44	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 - Dawley Rd (N)		ONE HOUR	✓	1143	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1350	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	624
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	1014	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.54	2201.83	73.6	F	190	285
B-A	2.51	2214.86	71.3	F	183	274
C-AB	0.95	67.71	26.6	F	636	953
C-A					603	905
A-B					476	714
A-C					573	859

### 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-C	156	39	477	0.327	154	0.0	0.5	12.176	B
B-A	150	37	263	0.571	144	0.0	1.3	32.271	D
C-AB	276	69	519	0.533	271	0.0	1.3	15.731	C
C-A	740	185			740				
A-B	391	98			391				
A-C	470	117			470				

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-C	186	47	214	0.868	172	0.5	4.2	76.414	F
B-A	179	45	189	0.947	162	1.3	5.6	109.106	F
C-AB	417	104	606	0.688	411	1.3	2.8	20.123	C
C-A	797	199			797				
A-B	467	117			467				
A-C	561	140			561				

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-C	228	57	100	2.271	99	4.2	36.3	794.227	F
B-A	219	55	99	2.211	98	5.6	35.8	827.686	F
C-AB	1214	304	1277	0.951	1152	2.8	18.3	32.262	D
C-A	272	68			272				
A-B	571	143			571				
A-C	687	172			687				

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-C	228	57	90	2.540	90	36.3	70.9	2201.832	F
B-A	219	55	87	2.514	87	35.8	68.8	2214.857	F
C-AB	1214	304	1277	0.951	1181	18.3	26.6	58.601	F
C-A	272	68			272				
A-B	571	143			571				
A-C	687	172			687				

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-C	186	47	175	1.061	175	70.9	73.6	1330.042	F
B-A	179	45	170	1.055	169	68.8	71.3	1333.655	F
C-AB	417	104	606	0.688	507	26.6	3.9	67.709	F
C-A	797	199			797				
A-B	467	117			467				
A-C	561	140			561				

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
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<b>B-C</b>	156	39	250	0.624	246	73.6	51.1	916.519	F
<b>B-A</b>	150	37	241	0.622	237	71.3	49.4	918.509	F
<b>C-AB</b>	276	69	519	0.533	286	3.9	1.4	17.791	C
<b>C-A</b>	740	185			740				
<b>A-B</b>	391	98			391				
<b>A-C</b>	470	117			470				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J1 - Dawley Rd- Botwell Common Rd 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 17:01:42

- »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-C	18.0	174.82	1.06	F	1.1	24.21	0.52	C
Stream B-A	9.3	225.88	1.02	F	2.1	59.18	0.68	F
Stream C-AB	0.8	14.44	0.42	B	2.2	21.00	0.64	C
<b>2024 Baseline</b>								
Stream B-C	172.8	1887.35	2.10	F	70.2	1793.93	2.16	F
Stream B-A	66.5	1931.96	2.08	F	67.5	1795.49	2.16	F
Stream C-AB	2.7	24.01	0.67	C	19.7	46.85	0.92	E
<b>2024 Baseline+Dev</b>								
Stream B-C	173.4	1903.13	2.11	F	76.3	2070.06	2.34	F
Stream B-A	66.8	1947.86	2.09	F	73.3	2071.59	2.34	F
Stream C-AB	2.7	23.55	0.66	C	22.8	54.92	0.94	F
<b>2029 Baseline</b>								
Stream B-C	189.2	2148.29	2.23	F	82.5	2284.53	2.48	F
Stream B-A	73.2	2192.56	2.21	F	79.4	2285.97	2.48	F
Stream C-AB	3.1	24.93	0.69	C	27.5	71.18	0.96	F
<b>2029 Baseline+Dev</b>								
Stream B-C	189.7	2162.58	2.24	F	89.4	2691.61	2.74	F
Stream B-A	73.4	2206.99	2.22	F	86.0	2693.12	2.74	F

Stream C-AB	3.0	24.39	0.69	C	32.3	91.80	0.97	F
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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	46.54	E

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

# Arms

## Arms

Arm	Name	Description	Arm type
A	Dawley Rd (N)		Major
B	Botwell Common Rod		Minor
C	Dawley Rd (S)		Major

## Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Dawley Rd (S)	9.60		✓	2.20	150.0	✓	5.00

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

## Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Botwell Common Rod	One lane plus flare	10.00	6.50	5.00	4.00	3.80		1.00	160	88

## 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	564	0.087	0.219	0.138	0.313
1	B-C	772	0.100	0.252	-	-
1	C-B	661	0.216	0.216	-	-

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 - Dawley Rd (N)		ONE HOUR	✓	836	100.000
B - Botwell Common Rod		ONE HOUR	✓	467	100.000
C - Dawley Rd (S)		ONE HOUR	✓	659	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	204	632
	B - Botwell Common Rod	139	0	328
	C - Dawley Rd (S)	483	176	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	1.06	174.82	18.0	F	301	451
B-A	1.02	225.88	9.3	F	128	191
C-AB	0.42	14.44	0.8	B	163	245
C-A					441	662
A-B					187	281
A-C					580	870

### 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-C	247	62	565	0.437	244	0.0	0.8	12.192	B
B-A	105	26	326	0.321	103	0.0	0.5	17.544	C
C-AB	133	33	526	0.252	131	0.0	0.4	10.004	B
C-A	363	91			363				

A-B	154	38			154				
A-C	476	119			476				

**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-C	295	74	494	0.597	292	0.8	1.6	19.356	C
B-A	125	31	259	0.483	123	0.5	1.0	28.756	D
C-AB	159	40	501	0.317	158	0.4	0.5	11.544	B
C-A	433	108			433				
A-B	183	46			183				
A-C	568	142			568				

**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-C	361	90	352	1.025	324	1.6	10.8	93.089	F
B-A	153	38	150	1.017	131	1.0	6.4	140.983	F
C-AB	198	50	472	0.419	197	0.5	0.8	14.326	B
C-A	527	132			527				
A-B	225	56			225				
A-C	696	174			696				

**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-C	361	90	342	1.056	332	10.8	18.0	174.819	F
B-A	153	38	151	1.012	142	6.4	9.3	225.875	F
C-AB	198	50	472	0.419	198	0.8	0.8	14.439	B
C-A	527	132			527				
A-B	225	56			225				
A-C	696	174			696				

**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-C	295	74	423	0.697	355	18.0	2.9	79.032	F
B-A	125	31	203	0.615	154	9.3	2.1	99.031	F
C-AB	159	40	501	0.317	160	0.8	0.5	11.658	B
C-A	433	108			433				
A-B	183	46			183				
A-C	568	142			568				

**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-C	247	62	555	0.445	255	2.9	0.9	13.542	B
B-A	105	26	321	0.326	111	2.1	0.5	19.299	C
C-AB	133	33	526	0.252	133	0.5	0.4	10.109	B
C-A	363	91			363				
A-B	154	38			154				
A-C	476	119			476				

# 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	7.93	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Dawley Rd (N)		ONE HOUR	✓	966	100.000
B - Botwell Common Rod		ONE HOUR	✓	285	100.000
C - Dawley Rd (S)		ONE HOUR	✓	906	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	483	483
	B - Botwell Common Rod	126	0	159
	C - Dawley Rd (S)	656	250	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	0.52	24.21	1.1	C	146	219
B-A	0.68	59.18	2.1	F	116	173
C-AB	0.64	21.00	2.2	C	253	380
C-A					578	867
A-B					443	665
A-C					443	665

## 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-C	120	30	556	0.215	119	0.0	0.3	9.022	A
B-A	95	24	339	0.279	93	0.0	0.4	15.975	C
C-AB	190	48	509	0.374	188	0.0	0.6	12.217	B
C-A	492	123			492				
A-B	364	91			364				
A-C	364	91			364				

### 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-C	143	36	496	0.288	142	0.3	0.4	11.165	B
B-A	113	28	285	0.397	112	0.4	0.7	22.712	C
C-AB	234	59	493	0.475	233	0.6	1.0	15.136	C
C-A	580	145			580				
A-B	434	109			434				
A-C	434	109			434				

### 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-C	175	44	354	0.495	173	0.4	1.0	21.607	C
B-A	139	35	206	0.674	134	0.7	1.9	51.902	F
C-AB	335	84	525	0.638	331	1.0	2.1	20.145	C
C-A	662	166			662				
A-B	532	133			532				
A-C	532	133			532				

### 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-C	175	44	338	0.519	175	1.0	1.1	24.208	C
B-A	139	35	203	0.683	138	1.9	2.1	59.181	F



C-AB	335	84	525	0.638	335	2.1	2.2	21.000	C
C-A	662	166			662				
A-B	532	133			532				
A-C	532	133			532				

#### 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-C	143	36	485	0.295	146	1.1	0.5	11.749	B
B-A	113	28	283	0.400	119	2.1	0.8	24.784	C
C-AB	234	59	493	0.475	239	2.2	1.1	15.853	C
C-A	580	145			580				
A-B	434	109			434				
A-C	434	109			434				

#### 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-C	120	30	553	0.217	120	0.5	0.3	9.174	A
B-A	95	24	338	0.280	96	0.8	0.4	16.439	C
C-AB	190	48	509	0.374	192	1.1	0.7	12.537	B
C-A	492	123			492				
A-B	364	91			364				
A-C	364	91			364				

## 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	422.48	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 - Dawley Rd (N)		ONE HOUR	✓	1187	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	940	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	907
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	710	230	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.10	1887.35	172.8	F	401	601
B-A	2.08	1931.96	66.5	F	153	230
C-AB	0.67	24.01	2.7	C	243	365
C-A					619	929
A-B					257	385
A-C					832	1248

### 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-C	329	82	433	0.760	317	0.0	3.0	31.550	D
B-A	126	31	191	0.657	119	0.0	1.8	50.597	F
C-AB	175	44	474	0.370	173	0.0	0.6	13.055	B
C-A	532	133			532				

A-B	211	53			211				
A-C	683	171			683				

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-C	393	98	317	1.238	309	3.0	24.0	198.548	F
B-A	150	38	123	1.218	115	1.8	10.6	261.470	F
C-AB	218	54	453	0.480	216	0.6	1.0	16.617	C
C-A	627	157			627				
A-B	252	63			252				
A-C	815	204			815				

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-C	481	120	229	2.103	229	24.0	87.2	883.747	F
B-A	184	46	90	2.052	89	10.6	34.2	948.574	F
C-AB	337	84	504	0.669	331	1.0	2.5	22.593	C
C-A	698	174			698				
A-B	308	77			308				
A-C	999	250			999				

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-C	481	120	229	2.101	229	87.2	150.2	1887.354	F
B-A	184	46	89	2.077	88	34.2	58.1	1931.963	F
C-AB	337	84	504	0.669	337	2.5	2.7	24.011	C
C-A	698	174			698				
A-B	308	77			308				
A-C	999	250			999				

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-C	393	98	303	1.298	303	150.2	172.8	1807.522	F
B-A	150	38	117	1.288	116	58.1	66.5	1835.828	F
C-AB	218	54	453	0.480	224	2.7	1.1	17.764	C
C-A	627	157			627				
A-B	252	63			252				
A-C	815	204			815				

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-C	329	82	346	0.951	344	172.8	169.1	1791.084	F
B-A	126	31	133	0.947	131	66.5	65.3	1816.172	F
C-AB	175	44	474	0.370	177	1.1	0.7	13.432	B
C-A	532	133			532				
A-B	211	53			211				
A-C	683	171			683				

# 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	269.95	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 - Dawley Rd (N)		ONE HOUR	✓	1092	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1310	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	573
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	974	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.16	1793.93	70.2	F	190	285
B-A	2.16	1795.49	67.5	F	183	274
C-AB	0.92	46.85	19.7	E	575	863
C-A					627	940
A-B					476	714
A-C					526	789

## 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-C	156	39	421	0.370	153	0.0	0.6	14.649	B
B-A	150	37	260	0.577	144	0.0	1.4	32.997	D
C-AB	273	68	522	0.523	268	0.0	1.2	15.361	C
C-A	713	178			713				
A-B	391	98			391				
A-C	431	108			431				

### 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-C	186	47	182	1.024	160	0.6	7.2	131.596	F
B-A	179	45	178	1.007	157	1.4	6.9	138.235	F
C-AB	399	100	594	0.673	394	1.2	2.6	19.671	C
C-A	778	195			778				
A-B	467	117			467				
A-C	515	129			515				

### 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-C	228	57	114	2.006	113	7.2	36.0	752.168	F
B-A	219	55	109	2.009	108	6.9	34.6	752.803	F
C-AB	1054	263	1143	0.922	1007	2.6	14.3	29.488	D
C-A	388	97			388				
A-B	571	143			571				
A-C	631	158			631				

### 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-C	228	57	106	2.156	106	36.0	66.6	1793.934	F
B-A	219	55	102	2.157	101	34.6	64.0	1795.491	F

C-AB	1054	263	1143	0.922	1032	14.3	19.7	46.853	E
C-A	388	97			388				
A-B	571	143			571				
A-C	631	158			631				

#### 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-C	186	47	172	1.082	172	66.6	70.2	1335.577	F
B-A	179	45	165	1.082	165	64.0	67.5	1336.408	F
C-AB	399	100	594	0.673	464	19.7	3.4	45.230	E
C-A	778	195			778				
A-B	467	117			467				
A-C	515	129			515				

#### 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-C	156	39	222	0.703	218	70.2	54.6	1031.531	F
B-A	150	37	213	0.703	210	67.5	52.5	1032.538	F
C-AB	273	68	522	0.523	281	3.4	1.4	17.049	C
C-A	713	178			713				
A-B	391	98			391				
A-C	431	108			431				

## 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	423.29	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 - Dawley Rd (N)		ONE HOUR	✓	1177	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	967	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	897
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	737	230	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.11	1903.13	173.4	F	401	601
B-A	2.09	1947.86	66.8	F	153	230
C-AB	0.66	23.55	2.7	C	244	365
C-A					644	966
A-B					257	385
A-C					823	1235

### 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-C	329	82	433	0.759	317	0.0	3.0	31.437	D
B-A	126	31	191	0.659	119	0.0	1.8	50.832	F
C-AB	175	44	475	0.369	173	0.0	0.6	12.983	B
C-A	553	138			553				

A-B	211	53			211				
A-C	675	169			675				

**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-C	393	98	317	1.240	308	3.0	24.1	199.476	F
B-A	150	38	123	1.219	115	1.8	10.6	262.648	F
C-AB	218	54	456	0.478	216	0.6	1.0	16.469	C
C-A	651	163			651				
A-B	252	63			252				
A-C	806	202			806				

**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-C	481	120	228	2.112	228	24.1	87.5	890.200	F
B-A	184	46	89	2.061	89	10.6	34.4	955.052	F
C-AB	337	84	508	0.665	332	1.0	2.5	22.203	C
C-A	727	182			727				
A-B	308	77			308				
A-C	988	247			988				

**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-C	481	120	228	2.111	228	87.5	150.8	1903.128	F
B-A	184	46	88	2.086	88	34.4	58.3	1947.856	F
C-AB	337	84	508	0.665	337	2.5	2.7	23.546	C
C-A	727	182			727				
A-B	308	77			308				
A-C	988	247			988				

**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-C	393	98	303	1.298	303	150.8	173.4	1812.950	F
B-A	150	38	117	1.288	116	58.3	66.8	1841.220	F
C-AB	218	54	456	0.478	224	2.7	1.1	17.570	C
C-A	651	163			651				
A-B	252	63			252				
A-C	806	202			806				

**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-C	329	82	346	0.951	344	173.4	169.6	1795.422	F
B-A	126	31	133	0.946	131	66.8	65.5	1820.478	F
C-AB	175	44	475	0.369	177	1.1	0.7	13.353	B
C-A	553	138			553				
A-B	211	53			211				
A-C	675	169			675				



# 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	308.60	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 - Dawley Rd (N)		ONE HOUR	✓	1119	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1316	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	600
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	980	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.34	2070.06	76.3	F	190	285
B-A	2.34	2071.59	73.3	F	183	274
C-AB	0.94	54.92	22.8	F	601	902
C-A					606	910
A-B					476	714
A-C					551	826

## 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-C	156	39	412	0.379	153	0.0	0.7	15.177	C
B-A	150	37	254	0.590	144	0.0	1.4	34.529	D
C-AB	274	69	519	0.528	269	0.0	1.3	15.575	C
C-A	716	179			716				
A-B	391	98			391				
A-C	452	113			452				

### 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-C	186	47	176	1.055	157	0.7	8.0	145.319	F
B-A	179	45	173	1.037	154	1.4	7.6	152.810	F
C-AB	407	102	597	0.681	401	1.3	2.7	19.987	C
C-A	776	194			776				
A-B	467	117			467				
A-C	539	135			539				

### 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-C	228	57	107	2.138	106	8.0	38.4	848.007	F
B-A	219	55	102	2.141	102	7.6	36.9	848.393	F
C-AB	1122	281	1198	0.937	1069	2.7	16.2	31.064	D
C-A	327	82			327				
A-B	571	143			571				
A-C	661	165			661				

### 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-C	228	57	98	2.337	97	38.4	71.0	2070.061	F
B-A	219	55	94	2.338	94	36.9	68.3	2071.594	F

C-AB	1122	281	1198	0.937	1096	16.2	22.8	52.144	F
C-A	327	82			327				
A-B	571	143			571				
A-C	661	165			661				

#### 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-C	186	47	165	1.124	165	71.0	76.3	1456.080	F
B-A	179	45	159	1.125	159	68.3	73.3	1456.867	F
C-AB	407	102	597	0.681	483	22.8	3.7	54.916	F
C-A	776	194			776				
A-B	467	117			467				
A-C	539	135			539				

#### 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-C	156	39	218	0.715	215	76.3	61.5	1155.612	F
B-A	150	37	210	0.715	207	73.3	59.1	1156.581	F
C-AB	274	69	519	0.528	283	3.7	1.4	17.441	C
C-A	716	179			716				
A-B	391	98			391				
A-C	452	113			452				

## 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	481.05	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
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 - Dawley Rd (N)		ONE HOUR	✓	1209	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	956	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	924
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	722	234	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.23	2148.29	189.2	F	408	613
B-A	2.21	2192.56	73.2	F	157	235
C-AB	0.69	24.93	3.1	C	254	381
C-A					624	935
A-B					262	392
A-C					848	1272

### 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-C	335	84	418	0.802	320	0.0	3.6	36.720	E
B-A	129	32	180	0.714	120	0.0	2.2	59.422	F
C-AB	179	45	471	0.379	176	0.0	0.7	13.316	B
C-A	541	135			541				

A-B	215	54			215				
A-C	696	174			696				

**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-C	400	100	308	1.299	302	3.6	28.2	237.207	F
B-A	154	38	121	1.274	114	2.2	12.1	301.570	F
C-AB	223	56	452	0.494	222	0.7	1.1	17.063	C
C-A	636	159			636				
A-B	256	64			256				
A-C	831	208			831				

**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-C	490	122	220	2.229	220	28.2	95.8	1010.302	F
B-A	188	47	86	2.183	86	12.1	37.7	1071.672	F
C-AB	359	90	521	0.690	352	1.1	2.8	23.199	C
C-A	693	173			693				
A-B	314	78			314				
A-C	1017	254			1017				

**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-C	490	122	219	2.233	219	95.8	163.4	2148.293	F
B-A	188	47	85	2.211	85	37.7	63.5	2192.561	F
C-AB	359	90	521	0.690	358	2.8	3.1	24.927	C
C-A	693	173			693				
A-B	314	78			314				
A-C	1017	254			1017				

**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-C	400	100	297	1.348	297	163.4	189.2	1990.906	F
B-A	154	38	115	1.339	115	63.5	73.2	2018.683	F
C-AB	223	56	452	0.494	231	3.1	1.2	18.477	C
C-A	636	159			636				
A-B	256	64			256				
A-C	831	208			831				

**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-C	335	84	341	0.981	339	189.2	188.1	2000.964	F
B-A	129	32	132	0.977	130	73.2	72.8	2025.524	F
C-AB	179	45	471	0.379	181	1.2	0.7	13.738	B
C-A	541	135			541				
A-B	215	54			215				
A-C	696	174			696				

# 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	347.47	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 - Dawley Rd (N)		ONE HOUR	✓	1118	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1335	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	586
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	992	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.48	2284.53	82.5	F	194	290
B-A	2.48	2285.97	79.4	F	186	279
C-AB	0.96	71.18	27.5	F	646	969
C-A					579	869
A-B					488	732
A-C					538	807

## 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-C	159	40	404	0.393	156	0.0	0.7	15.778	C
B-A	153	38	251	0.608	147	0.0	1.5	36.042	E
C-AB	282	71	524	0.539	277	0.0	1.3	15.768	C
C-A	723	181			723				
A-B	401	100			401				
A-C	441	110			441				

### 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-C	190	47	175	1.086	157	0.7	8.8	158.224	F
B-A	182	46	171	1.066	155	1.5	8.4	166.524	F
C-AB	427	107	614	0.695	420	1.3	2.9	20.244	C
C-A	773	193			773				
A-B	478	120			478				
A-C	527	132			527				

### 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-C	232	58	105	2.223	104	8.8	40.9	919.650	F
B-A	224	56	100	2.226	100	8.4	39.3	919.787	F
C-AB	1229	307	1285	0.956	1165	2.9	18.9	33.233	D
C-A	241	60			241				
A-B	586	146			586				
A-C	645	161			645				

### 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-C	232	58	94	2.477	94	40.9	75.5	2284.530	F
B-A	224	56	90	2.478	90	39.3	72.6	2285.967	F

C-AB	1229	307	1285	0.956	1194	18.9	27.5	61.185	F
C-A	241	60			241				
A-B	586	146			586				
A-C	645	161			645				

#### 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-C	190	47	162	1.172	162	75.5	82.5	1563.044	F
B-A	182	46	156	1.173	155	72.6	79.4	1563.771	F
C-AB	427	107	614	0.695	520	27.5	4.1	71.184	F
C-A	773	193			773				
A-B	478	120			478				
A-C	527	132			527				

#### 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-C	159	40	217	0.732	214	82.5	68.7	1272.856	F
B-A	153	38	209	0.732	206	79.4	66.1	1273.769	F
C-AB	282	71	524	0.539	293	4.1	1.5	17.927	C
C-A	723	181			723				
A-B	401	100			401				
A-C	441	110			441				

## 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	481.40	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 - Dawley Rd (N)		ONE HOUR	✓	1198	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	983	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	913
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	749	234	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.24	2162.58	189.7	F	408	613
B-A	2.22	2206.99	73.4	F	157	235
C-AB	0.69	24.39	3.0	C	254	381
C-A					648	972
A-B					262	392
A-C					838	1257

### 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-C	335	84	418	0.801	321	0.0	3.6	36.523	E
B-A	129	32	180	0.714	120	0.0	2.2	59.528	F
C-AB	179	45	473	0.378	176	0.0	0.7	13.234	B
C-A	561	140			561				

A-B	215	54			215				
A-C	687	172			687				

**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-C	400	100	308	1.300	301	3.6	28.3	237.752	F
B-A	154	38	121	1.274	114	2.2	12.1	302.374	F
C-AB	223	56	455	0.491	222	0.7	1.1	16.892	C
C-A	660	165			660				
A-B	256	64			256				
A-C	821	205			821				

**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-C	490	122	219	2.238	219	28.3	96.0	1015.549	F
B-A	188	47	86	2.192	86	12.1	37.8	1076.983	F
C-AB	359	90	524	0.685	352	1.1	2.8	22.760	C
C-A	723	181			723				
A-B	314	78			314				
A-C	1005	251			1005				

**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-C	490	122	219	2.242	219	96.0	163.9	2162.583	F
B-A	188	47	85	2.219	85	37.8	63.6	2206.987	F
C-AB	359	90	524	0.685	358	2.8	3.0	24.388	C
C-A	723	181			723				
A-B	314	78			314				
A-C	1005	251			1005				

**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-C	400	100	297	1.347	297	163.9	189.7	1993.944	F
B-A	154	38	115	1.338	115	63.6	73.4	2021.691	F
C-AB	223	56	455	0.491	231	3.0	1.2	18.245	C
C-A	660	165			660				
A-B	256	64			256				
A-C	821	205			821				

**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-C	335	84	342	0.980	340	189.7	188.5	2002.590	F
B-A	129	32	132	0.975	131	73.4	72.7	2027.119	F
C-AB	179	45	473	0.378	181	1.2	0.7	13.644	B
C-A	561	140			561				
A-B	215	54			215				
A-C	687	172			687				

# 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	407.65	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 - Dawley Rd (N)		ONE HOUR	✓	1146	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1341	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	614
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	998	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.74	2691.61	89.4	F	194	290
B-A	2.74	2693.12	86.0	F	186	279
C-AB	0.97	91.80	32.3	F	679	1019
C-A					551	827
A-B					488	732
A-C					563	845

## 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-C	159	40	394	0.403	156	0.0	0.7	16.456	C
B-A	153	38	245	0.623	146	0.0	1.6	37.923	E
C-AB	284	71	522	0.544	278	0.0	1.4	15.993	C
C-A	726	181			726				
A-B	401	100			401				
A-C	462	116			462				

### 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-C	190	47	169	1.122	154	0.7	9.7	176.787	F
B-A	182	46	166	1.100	152	1.6	9.2	186.284	F
C-AB	436	109	620	0.703	429	1.4	3.1	20.582	C
C-A	770	192			770				
A-B	478	120			478				
A-C	552	138			552				

### 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-C	232	58	97	2.392	97	9.7	43.6	1043.090	F
B-A	224	56	93	2.396	93	9.2	41.9	1043.164	F
C-AB	1319	330	1356	0.972	1245	3.1	21.5	35.601	E
C-A	158	39			158				
A-B	586	146			586				
A-C	676	169			676				

### 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-C	232	58	85	2.743	85	43.6	80.5	2691.605	F
B-A	224	56	81	2.745	81	41.9	77.4	2693.118	F

C-AB	1319	330	1356	0.972	1275	21.5	32.3	69.792	F
C-A	158	39			158				
A-B	586	146			586				
A-C	676	169			676				

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-C	190	47	154	1.230	154	80.5	89.4	1707.114	F
B-A	182	46	148	1.231	148	77.4	86.0	1707.815	F
C-AB	436	109	620	0.703	547	32.3	4.4	91.797	F
C-A	770	192			770				
A-B	478	120			478				
A-C	552	138			552				

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-C	159	40	213	0.745	211	89.4	76.5	1419.976	F
B-A	153	38	205	0.745	202	86.0	73.6	1420.872	F
C-AB	284	71	522	0.544	296	4.4	1.5	18.426	C
C-A	726	181			726				
A-B	401	100			401				
A-C	462	116			462				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J1 - Dawley Rd- Botwell Common Rd Priority Junction - extended left turn flare.j9  
**Path:** C:\Users\Jenny Baker\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios  
**Report generation date:** 25/01/2017 16:20:01

- »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-C	4.1	43.39	0.81	E	0.7	15.00	0.40	B
Stream B-A	2.6	64.73	0.73	F	1.7	45.21	0.62	E
Stream C-AB	0.8	14.44	0.42	B	2.2	21.00	0.64	C
<b>2024 Baseline</b>								
Stream B-C	124.3	1179.34	1.77	F	58.5	1457.10	2.03	F
Stream B-A	48.1	1253.43	1.73	F	57.0	1469.77	2.00	F
Stream C-AB	2.7	24.01	0.67	C	19.7	46.85	0.92	E
<b>2024 Baseline+Dev</b>								
Stream B-C	125.0	1185.16	1.78	F	63.6	1714.37	2.21	F
Stream B-A	48.4	1268.17	1.74	F	61.8	1729.64	2.18	F
Stream C-AB	2.7	23.55	0.66	C	22.8	54.92	0.94	F
<b>2029 Baseline</b>								
Stream B-C	140.9	1411.03	1.88	F	70.0	1913.71	2.35	F
Stream B-A	54.7	1454.98	1.85	F	67.9	1928.61	2.32	F
Stream C-AB	3.1	24.93	0.69	C	27.5	71.18	0.96	F
<b>2029 Baseline+Dev</b>								
Stream B-C	141.5	1425.55	1.89	F	78.3	2318.71	2.60	F
Stream B-A	54.9	1469.64	1.86	F	75.5	2324.16	2.60	F

Stream C-AB	3.0	24.39	0.69	C	32.3	91.80	0.97	F
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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	13.15	B

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

# Arms

## Arms

Arm	Name	Description	Arm type
A	Dawley Rd (N)		Major
B	Botwell Common Rod		Minor
C	Dawley Rd (S)		Major

## Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Dawley Rd (S)	9.60		✓	2.20	150.0	✓	5.00

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

## Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Botwell Common Rod	One lane plus flare	10.00	6.50	6.50	6.50	3.80		3.00	160	88

## 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	558	0.086	0.217	0.136	0.310
1	B-C	781	0.101	0.255	-	-
1	C-B	661	0.216	0.216	-	-

*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 - Dawley Rd (N)		ONE HOUR	✓	836	100.000
B - Botwell Common Rod		ONE HOUR	✓	467	100.000
C - Dawley Rd (S)		ONE HOUR	✓	659	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	204	632
	B - Botwell Common Rod	139	0	328
	C - Dawley Rd (S)	483	176	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	0.81	43.39	4.1	E	301	451
B-A	0.73	64.73	2.6	F	128	191
C-AB	0.42	14.44	0.8	B	163	245
C-A					441	662
A-B					187	281
A-C					580	870

### 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-C	247	62	595	0.415	244	0.0	0.8	11.195	B
B-A	105	26	348	0.301	103	0.0	0.5	16.036	C
C-AB	133	33	526	0.252	131	0.0	0.4	10.004	B
C-A	363	91			363				

A-B	154	38			154				
A-C	476	119			476				

**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-C	295	74	548	0.538	293	0.8	1.2	15.398	C
B-A	125	31	301	0.415	124	0.5	0.8	22.212	C
C-AB	159	40	501	0.317	158	0.4	0.5	11.544	B
C-A	433	108			433				
A-B	183	46			183				
A-C	568	142			568				

**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-C	361	90	456	0.791	352	1.2	3.5	35.276	E
B-A	153	38	217	0.706	147	0.8	2.2	53.145	F
C-AB	198	50	472	0.419	197	0.5	0.8	14.326	B
C-A	527	132			527				
A-B	225	56			225				
A-C	696	174			696				

**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-C	361	90	446	0.809	359	3.5	4.1	43.388	E
B-A	153	38	210	0.727	152	2.2	2.6	64.729	F
C-AB	198	50	472	0.419	198	0.8	0.8	14.439	B
C-A	527	132			527				
A-B	225	56			225				
A-C	696	174			696				

**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-C	295	74	541	0.545	306	4.1	1.4	17.517	C
B-A	125	31	298	0.419	132	2.6	0.8	24.687	C
C-AB	159	40	501	0.317	160	0.8	0.5	11.658	B
C-A	433	108			433				
A-B	183	46			183				
A-C	568	142			568				

**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-C	247	62	593	0.417	249	1.4	0.8	11.610	B
B-A	105	26	347	0.301	106	0.8	0.5	16.504	C
C-AB	133	33	526	0.252	133	0.5	0.4	10.109	B
C-A	363	91			363				
A-B	154	38			154				
A-C	476	119			476				

# 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	6.43	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Dawley Rd (N)		ONE HOUR	✓	966	100.000
B - Botwell Common Rod		ONE HOUR	✓	285	100.000
C - Dawley Rd (S)		ONE HOUR	✓	906	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	483	483
	B - Botwell Common Rod	126	0	159
	C - Dawley Rd (S)	656	250	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	0.40	15.00	0.7	B	146	219
B-A	0.62	45.21	1.7	E	116	173
C-AB	0.64	21.00	2.2	C	253	380
C-A					578	867
A-B					443	665
A-C					443	665

## 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-C	120	30	578	0.207	119	0.0	0.3	8.593	A
B-A	95	24	346	0.274	93	0.0	0.4	15.681	C
C-AB	190	48	509	0.374	188	0.0	0.6	12.217	B
C-A	492	123			492				
A-B	364	91			364				
A-C	364	91			364				

### 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-C	143	36	536	0.267	142	0.3	0.4	10.059	B
B-A	113	28	296	0.383	112	0.4	0.7	21.457	C
C-AB	234	59	493	0.475	233	0.6	1.0	15.136	C
C-A	580	145			580				
A-B	434	109			434				
A-C	434	109			434				

### 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-C	175	44	447	0.392	174	0.4	0.7	14.462	B
B-A	139	35	226	0.614	135	0.7	1.6	42.008	E
C-AB	335	84	525	0.638	331	1.0	2.1	20.145	C
C-A	662	166			662				
A-B	532	133			532				
A-C	532	133			532				

### 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-C	175	44	439	0.399	175	0.7	0.7	14.998	B
B-A	139	35	225	0.616	138	1.6	1.7	45.211	E

C-AB	335	84	525	0.638	335	2.1	2.2	20.998	C
C-A	662	166			662				
A-B	532	133			532				
A-C	532	133			532				

#### 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-C	143	36	530	0.270	144	0.7	0.4	10.284	B
B-A	113	28	295	0.384	117	1.7	0.7	22.693	C
C-AB	234	59	493	0.475	239	2.2	1.1	15.854	C
C-A	580	145			580				
A-B	434	109			434				
A-C	434	109			434				

#### 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-C	120	30	576	0.208	120	0.4	0.3	8.701	A
B-A	95	24	345	0.275	96	0.7	0.4	15.973	C
C-AB	190	48	509	0.374	192	1.1	0.7	12.537	B
C-A	492	123			492				
A-B	364	91			364				
A-C	364	91			364				

## 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	267.69	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 - Dawley Rd (N)		ONE HOUR	✓	1187	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	940	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	907
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	710	230	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	1.77	1179.34	124.3	F	401	601
B-A	1.73	1253.43	48.1	F	153	230
C-AB	0.67	24.01	2.7	C	243	365
C-A					619	929
A-B					257	385
A-C					832	1248

### 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-C	329	82	507	0.649	321	0.0	1.9	20.615	C
B-A	126	31	245	0.514	121	0.0	1.1	31.190	D
C-AB	175	44	474	0.370	173	0.0	0.6	13.055	B
C-A	532	133			532				

A-B	211	53			211				
A-C	683	171			683				

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-C	393	98	382	1.030	354	1.9	11.6	95.354	F
B-A	150	38	147	1.020	129	1.1	6.4	151.507	F
C-AB	218	54	453	0.480	216	0.6	1.0	16.617	C
C-A	627	157			627				
A-B	252	63			252				
A-C	815	204			815				

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-C	481	120	272	1.772	271	11.6	64.2	527.149	F
B-A	184	46	108	1.704	107	6.4	25.8	600.521	F
C-AB	337	84	504	0.669	331	1.0	2.5	22.593	C
C-A	698	174			698				
A-B	308	77			308				
A-C	999	250			999				

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-C	481	120	273	1.762	273	64.2	116.3	1021.527	F
B-A	184	46	106	1.732	106	25.8	45.2	1253.434	F
C-AB	337	84	504	0.669	337	2.5	2.7	24.011	C
C-A	698	174			698				
A-B	308	77			308				
A-C	999	250			999				

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-C	393	98	361	1.088	361	116.3	124.3	1179.341	F
B-A	150	38	139	1.078	139	45.2	48.1	1205.475	F
C-AB	218	54	453	0.480	224	2.7	1.1	17.764	C
C-A	627	157			627				
A-B	252	63			252				
A-C	815	204			815				

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-C	329	82	406	0.810	403	124.3	105.9	1029.699	F
B-A	126	31	156	0.804	153	48.1	41.3	1054.551	F
C-AB	175	44	474	0.370	177	1.1	0.7	13.432	B
C-A	532	133			532				
A-B	211	53			211				
A-C	683	171			683				

# 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	222.04	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 - Dawley Rd (N)		ONE HOUR	✓	1092	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1310	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	573
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	974	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.03	1457.10	58.5	F	190	285
B-A	2.00	1469.77	57.0	F	183	274
C-AB	0.92	46.85	19.7	E	575	863
C-A					627	940
A-B					476	714
A-C					526	789

## 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-C	156	39	493	0.316	154	0.0	0.5	11.607	B
B-A	150	37	276	0.542	145	0.0	1.2	29.217	D
C-AB	273	68	522	0.523	268	0.0	1.2	15.361	C
C-A	713	178			713				
A-B	391	98			391				
A-C	431	108			431				

### 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-C	186	47	296	0.629	181	0.5	1.7	33.354	D
B-A	179	45	206	0.867	167	1.2	4.2	83.838	F
C-AB	399	100	594	0.673	394	1.2	2.6	19.671	C
C-A	778	195			778				
A-B	467	117			467				
A-C	515	129			515				

### 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-C	228	57	118	1.923	116	1.7	29.7	540.794	F
B-A	219	55	119	1.840	118	4.2	29.6	584.680	F
C-AB	1054	263	1143	0.922	1007	2.6	14.3	29.488	D
C-A	388	97			388				
A-B	571	143			571				
A-C	631	158			631				

### 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-C	228	57	112	2.026	112	29.7	58.5	1457.103	F
B-A	219	55	110	2.001	109	29.6	57.0	1469.773	F

C-AB	1054	263	1143	0.922	1032	14.3	19.7	46.853	E
C-A	388	97			388				
A-B	571	143			571				
A-C	631	158			631				

#### 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-C	186	47	195	0.955	191	58.5	57.2	1041.765	F
B-A	179	45	189	0.948	185	57.0	55.4	1045.112	F
C-AB	399	100	594	0.673	464	19.7	3.4	45.232	E
C-A	778	195			778				
A-B	467	117			467				
A-C	515	129			515				

#### 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-C	156	39	261	0.597	256	57.2	32.1	633.518	F
B-A	150	37	252	0.594	247	55.4	31.1	635.604	F
C-AB	273	68	522	0.523	281	3.4	1.4	17.049	C
C-A	713	178			713				
A-B	391	98			391				
A-C	431	108			431				

## 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	267.81	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 - Dawley Rd (N)		ONE HOUR	✓	1177	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	967	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	897
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	737	230	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	1.78	1185.16	125.0	F	401	601
B-A	1.74	1268.17	48.4	F	153	230
C-AB	0.66	23.55	2.7	C	244	365
C-A					644	966
A-B					257	385
A-C					823	1235

### 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-C	329	82	508	0.648	321	0.0	1.9	20.498	C
B-A	126	31	244	0.516	121	0.0	1.1	31.384	D
C-AB	175	44	475	0.369	173	0.0	0.6	12.983	B
C-A	553	138			553				

A-B	211	53			211				
A-C	675	169			675				

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-C	393	98	381	1.031	354	1.9	11.7	95.705	F
B-A	150	38	147	1.021	129	1.1	6.5	152.015	F
C-AB	218	54	456	0.478	216	0.6	1.0	16.469	C
C-A	651	163			651				
A-B	252	63			252				
A-C	806	202			806				

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-C	481	120	270	1.782	269	11.7	64.7	533.085	F
B-A	184	46	107	1.714	106	6.5	25.9	606.609	F
C-AB	337	84	508	0.665	332	1.0	2.5	22.203	C
C-A	727	182			727				
A-B	308	77			308				
A-C	988	247			988				

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-C	481	120	272	1.771	272	64.7	117.1	1028.884	F
B-A	184	46	106	1.742	105	25.9	45.5	1268.169	F
C-AB	337	84	508	0.665	337	2.5	2.7	23.546	C
C-A	727	182			727				
A-B	308	77			308				
A-C	988	247			988				

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-C	393	98	361	1.088	361	117.1	125.0	1185.164	F
B-A	150	38	139	1.077	139	45.5	48.4	1211.241	F
C-AB	218	54	456	0.478	224	2.7	1.1	17.570	C
C-A	651	163			651				
A-B	252	63			252				
A-C	806	202			806				

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-C	329	82	407	0.808	403	125.0	106.4	1033.914	F
B-A	126	31	157	0.802	153	48.4	41.5	1058.703	F
C-AB	175	44	475	0.369	177	1.1	0.7	13.353	B
C-A	553	138			553				
A-B	211	53			211				
A-C	675	169			675				

# 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	258.73	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 - Dawley Rd (N)		ONE HOUR	✓	1119	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1316	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	600
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	980	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.21	1714.37	63.6	F	190	285
B-A	2.18	1729.64	61.8	F	183	274
C-AB	0.94	54.92	22.8	F	601	902
C-A					606	910
A-B					476	714
A-C					551	826

## 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-C	156	39	486	0.321	154	0.0	0.5	11.857	B
B-A	150	37	271	0.553	145	0.0	1.3	30.383	D
C-AB	274	69	519	0.528	269	0.0	1.3	15.575	C
C-A	716	179			716				
A-B	391	98			391				
A-C	452	113			452				

### 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-C	186	47	266	0.700	179	0.5	2.2	42.992	E
B-A	179	45	199	0.898	165	1.3	4.7	92.997	F
C-AB	407	102	597	0.681	401	1.3	2.7	19.987	C
C-A	776	194			776				
A-B	467	117			467				
A-C	539	135			539				

### 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-C	228	57	111	2.061	109	2.2	32.0	625.713	F
B-A	219	55	111	1.972	110	4.7	32.0	673.252	F
C-AB	1122	281	1198	0.937	1069	2.7	16.2	31.064	D
C-A	327	82			327				
A-B	571	143			571				
A-C	661	165			661				

### 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-C	228	57	103	2.215	103	32.0	63.3	1714.368	F
B-A	219	55	100	2.183	100	32.0	61.7	1729.641	F

C-AB	1122	281	1198	0.937	1096	16.2	22.8	52.144	F
C-A	327	82			327				
A-B	571	143			571				
A-C	661	165			661				

#### 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-C	186	47	187	0.998	185	63.3	63.6	1154.614	F
B-A	179	45	181	0.989	179	61.7	61.8	1158.378	F
C-AB	407	102	597	0.681	483	22.8	3.7	54.916	F
C-A	776	194			776				
A-B	467	117			467				
A-C	539	135			539				

#### 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-C	156	39	256	0.609	252	63.6	39.6	743.098	F
B-A	150	37	248	0.605	243	61.8	38.4	745.710	F
C-AB	274	69	519	0.528	283	3.7	1.4	17.441	C
C-A	716	179			716				
A-B	391	98			391				
A-C	452	113			452				

## 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	317.73	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
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 - Dawley Rd (N)		ONE HOUR	✓	1209	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	956	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	924
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	722	234	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	1.88	1411.03	140.9	F	408	613
B-A	1.85	1454.98	54.7	F	157	235
C-AB	0.69	24.93	3.1	C	254	381
C-A					624	935
A-B					262	392
A-C					848	1272

### 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-C	335	84	498	0.673	327	0.0	2.1	22.189	C
B-A	129	32	237	0.543	124	0.0	1.2	33.771	D
C-AB	179	45	471	0.379	176	0.0	0.7	13.316	B
C-A	541	135			541				



A-B	215	54			215				
A-C	696	174			696				

**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-C	400	100	371	1.078	350	2.1	14.5	114.782	F
B-A	154	38	144	1.067	129	1.2	7.5	171.855	F
C-AB	223	56	452	0.494	222	0.7	1.1	17.063	C
C-A	636	159			636				
A-B	256	64			256				
A-C	831	208			831				

**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-C	490	122	260	1.885	259	14.5	72.1	622.788	F
B-A	188	47	103	1.819	103	7.5	28.9	694.164	F
C-AB	359	90	521	0.690	352	1.1	2.8	23.199	C
C-A	693	173			693				
A-B	314	78			314				
A-C	1017	254			1017				

**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-C	490	122	261	1.879	261	72.1	129.4	1411.033	F
B-A	188	47	102	1.850	102	28.9	50.6	1454.984	F
C-AB	359	90	521	0.690	358	2.8	3.1	24.927	C
C-A	693	173			693				
A-B	314	78			314				
A-C	1017	254			1017				

**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-C	400	100	354	1.129	354	129.4	140.9	1329.706	F
B-A	154	38	137	1.118	137	50.6	54.7	1355.560	F
C-AB	223	56	452	0.494	231	3.1	1.2	18.477	C
C-A	636	159			636				
A-B	256	64			256				
A-C	831	208			831				

**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-C	335	84	402	0.833	399	140.9	124.9	1200.127	F
B-A	129	32	156	0.828	152	54.7	48.8	1223.926	F
C-AB	179	45	471	0.379	181	1.2	0.7	13.738	B
C-A	541	135			541				
A-B	215	54			215				
A-C	696	174			696				

# 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	294.88	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 - Dawley Rd (N)		ONE HOUR	✓	1118	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1335	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	586
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	992	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.35	1913.71	70.0	F	194	290
B-A	2.32	1928.61	67.9	F	186	279
C-AB	0.96	71.18	27.5	F	646	969
C-A					579	869
A-B					488	732
A-C					538	807

## 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-C	159	40	483	0.329	157	0.0	0.5	12.074	B
B-A	153	38	269	0.568	147	0.0	1.3	31.387	D
C-AB	282	71	524	0.539	277	0.0	1.3	15.768	C
C-A	723	181			723				
A-B	401	100			401				
A-C	441	110			441				

### 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-C	190	47	239	0.795	179	0.5	3.2	58.877	F
B-A	182	46	197	0.928	167	1.3	5.3	101.441	F
C-AB	427	107	614	0.695	420	1.3	2.9	20.244	C
C-A	773	193			773				
A-B	478	120			478				
A-C	527	132			527				

### 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-C	232	58	109	2.136	107	3.2	34.4	694.415	F
B-A	224	56	109	2.058	108	5.3	34.3	736.918	F
C-AB	1229	307	1285	0.956	1165	2.9	18.9	33.233	D
C-A	241	60			241				
A-B	586	146			586				
A-C	645	161			645				

### 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-C	232	58	99	2.354	99	34.4	67.8	1913.705	F
B-A	224	56	96	2.324	96	34.3	66.1	1928.612	F

C-AB	1229	307	1285	0.956	1194	18.9	27.5	61.185	F
C-A	241	60			241				
A-B	586	146			586				
A-C	645	161			645				

#### 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-C	190	47	182	1.044	181	67.8	70.0	1251.881	F
B-A	182	46	176	1.036	175	66.1	67.9	1255.998	F
C-AB	427	107	614	0.695	520	27.5	4.1	71.184	F
C-A	773	193			773				
A-B	478	120			478				
A-C	527	132			527				

#### 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-C	159	40	255	0.624	251	70.0	47.0	843.380	F
B-A	153	38	246	0.620	242	67.9	45.5	845.607	F
C-AB	282	71	524	0.539	293	4.1	1.5	17.927	C
C-A	723	181			723				
A-B	401	100			401				
A-C	441	110			441				

## 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	319.06	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 - Dawley Rd (N)		ONE HOUR	✓	1198	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	983	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	913
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	749	234	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	1.89	1425.55	141.5	F	408	613
B-A	1.86	1469.64	54.9	F	157	235
C-AB	0.69	24.39	3.0	C	254	381
C-A					648	972
A-B					262	392
A-C					838	1257

### 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-C	335	84	499	0.671	327	0.0	2.1	22.044	C
B-A	129	32	236	0.545	124	0.0	1.2	33.934	D
C-AB	179	45	473	0.378	176	0.0	0.7	13.234	B
C-A	561	140			561				

A-B	215	54			215				
A-C	687	172			687				

#### 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-C	400	100	371	1.078	350	2.1	14.5	114.948	F
B-A	154	38	144	1.067	129	1.2	7.5	172.184	F
C-AB	223	56	455	0.491	222	0.7	1.1	16.892	C
C-A	660	165			660				
A-B	256	64			256				
A-C	821	205			821				

#### 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-C	490	122	259	1.895	258	14.5	72.5	628.370	F
B-A	188	47	103	1.829	102	7.5	29.0	699.875	F
C-AB	359	90	524	0.685	352	1.1	2.8	22.760	C
C-A	723	181			723				
A-B	314	78			314				
A-C	1005	251			1005				

#### 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-C	490	122	259	1.888	259	72.5	130.1	1425.554	F
B-A	188	47	101	1.859	101	29.0	50.8	1469.643	F
C-AB	359	90	524	0.685	358	2.8	3.0	24.388	C
C-A	723	181			723				
A-B	314	78			314				
A-C	1005	251			1005				

#### 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-C	400	100	355	1.127	355	130.1	141.5	1333.877	F
B-A	154	38	138	1.117	137	50.8	54.9	1359.677	F
C-AB	223	56	455	0.491	231	3.0	1.2	18.245	C
C-A	660	165			660				
A-B	256	64			256				
A-C	821	205			821				

#### 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-C	335	84	403	0.832	400	141.5	125.3	1202.427	F
B-A	129	32	156	0.826	153	54.9	48.9	1226.172	F
C-AB	179	45	473	0.378	181	1.2	0.7	13.646	B
C-A	561	140			561				
A-B	215	54			215				
A-C	687	172			687				

# 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	354.71	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 - Dawley Rd (N)		ONE HOUR	✓	1146	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1341	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	614
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	998	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.60	2318.71	78.3	F	194	290
B-A	2.60	2324.16	75.5	F	186	279
C-AB	0.97	91.80	32.3	F	679	1019
C-A					551	827
A-B					488	732
A-C					563	845

## 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-C	159	40	475	0.335	157	0.0	0.5	12.368	B
B-A	153	38	263	0.580	147	0.0	1.4	32.773	D
C-AB	284	71	522	0.544	278	0.0	1.4	15.993	C
C-A	726	181			726				
A-B	401	100			401				
A-C	462	116			462				

### 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-C	190	47	199	0.954	169	0.5	5.8	99.233	F
B-A	182	46	189	0.964	164	1.4	6.0	121.426	F
C-AB	436	109	620	0.703	429	1.4	3.1	20.582	C
C-A	770	192			770				
A-B	478	120			478				
A-C	552	138			552				

### 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-C	232	58	103	2.254	102	5.8	38.3	845.514	F
B-A	224	56	100	2.237	99	6.0	37.1	856.594	F
C-AB	1319	330	1356	0.972	1245	3.1	21.5	35.601	E
C-A	158	39			158				
A-B	586	146			586				
A-C	676	169			676				

### 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-C	232	58	89	2.604	89	38.3	74.1	2318.706	F
B-A	224	56	86	2.596	86	37.1	71.5	2324.160	F



C-AB	1319	330	1356	0.972	1275	21.5	32.3	69.792	F
C-A	158	39			158				
A-B	586	146			586				
A-C	676	169			676				

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-C	190	47	173	1.097	173	74.1	78.3	1394.294	F
B-A	182	46	167	1.095	166	71.5	75.5	1395.990	F
C-AB	436	109	620	0.703	547	32.3	4.4	91.797	F
C-A	770	192			770				
A-B	478	120			478				
A-C	552	138			552				

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-C	159	40	250	0.634	247	78.3	56.3	984.595	F
B-A	153	38	241	0.634	238	75.5	54.3	985.830	F
C-AB	284	71	522	0.544	296	4.4	1.5	18.426	C
C-A	726	181			726				
A-B	401	100			401				
A-C	462	116			462				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J1 - Dawley Rd- Botwell Common Rd 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 17:01:42

- »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-C	18.0	174.82	1.06	F	1.1	24.21	0.52	C
Stream B-A	9.3	225.88	1.02	F	2.1	59.18	0.68	F
Stream C-AB	0.8	14.44	0.42	B	2.2	21.00	0.64	C
<b>2024 Baseline</b>								
Stream B-C	172.8	1887.35	2.10	F	70.2	1793.93	2.16	F
Stream B-A	66.5	1931.96	2.08	F	67.5	1795.49	2.16	F
Stream C-AB	2.7	24.01	0.67	C	19.7	46.85	0.92	E
<b>2024 Baseline+Dev</b>								
Stream B-C	173.4	1903.13	2.11	F	76.3	2070.06	2.34	F
Stream B-A	66.8	1947.86	2.09	F	73.3	2071.59	2.34	F
Stream C-AB	2.7	23.55	0.66	C	22.8	54.92	0.94	F
<b>2029 Baseline</b>								
Stream B-C	189.2	2148.29	2.23	F	82.5	2284.53	2.48	F
Stream B-A	73.2	2192.56	2.21	F	79.4	2285.97	2.48	F
Stream C-AB	3.1	24.93	0.69	C	27.5	71.18	0.96	F
<b>2029 Baseline+Dev</b>								
Stream B-C	189.7	2162.58	2.24	F	89.4	2691.61	2.74	F
Stream B-A	73.4	2206.99	2.22	F	86.0	2693.12	2.74	F

Stream C-AB	3.0	24.39	0.69	C	32.3	91.80	0.97	F
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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	46.54	E

## Junction Network Options

Driving side	Lighting
Left	Normal/unknown

# Arms

## Arms

Arm	Name	Description	Arm type
A	Dawley Rd (N)		Major
B	Botwell Common Rod		Minor
C	Dawley Rd (S)		Major

## Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Dawley Rd (S)	9.60		✓	2.20	150.0	✓	5.00

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

## Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Botwell Common Rod	One lane plus flare	10.00	6.50	5.00	4.00	3.80		1.00	160	88

## 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	564	0.087	0.219	0.138	0.313
1	B-C	772	0.100	0.252	-	-
1	C-B	661	0.216	0.216	-	-

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 - Dawley Rd (N)		ONE HOUR	✓	836	100.000
B - Botwell Common Rod		ONE HOUR	✓	467	100.000
C - Dawley Rd (S)		ONE HOUR	✓	659	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	204	632
	B - Botwell Common Rod	139	0	328
	C - Dawley Rd (S)	483	176	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	1.06	174.82	18.0	F	301	451
B-A	1.02	225.88	9.3	F	128	191
C-AB	0.42	14.44	0.8	B	163	245
C-A					441	662
A-B					187	281
A-C					580	870

### 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-C	247	62	565	0.437	244	0.0	0.8	12.192	B
B-A	105	26	326	0.321	103	0.0	0.5	17.544	C
C-AB	133	33	526	0.252	131	0.0	0.4	10.004	B
C-A	363	91			363				

A-B	154	38			154				
A-C	476	119			476				

#### 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-C	295	74	494	0.597	292	0.8	1.6	19.356	C
B-A	125	31	259	0.483	123	0.5	1.0	28.756	D
C-AB	159	40	501	0.317	158	0.4	0.5	11.544	B
C-A	433	108			433				
A-B	183	46			183				
A-C	568	142			568				

#### 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-C	361	90	352	1.025	324	1.6	10.8	93.089	F
B-A	153	38	150	1.017	131	1.0	6.4	140.983	F
C-AB	198	50	472	0.419	197	0.5	0.8	14.326	B
C-A	527	132			527				
A-B	225	56			225				
A-C	696	174			696				

#### 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-C	361	90	342	1.056	332	10.8	18.0	174.819	F
B-A	153	38	151	1.012	142	6.4	9.3	225.875	F
C-AB	198	50	472	0.419	198	0.8	0.8	14.439	B
C-A	527	132			527				
A-B	225	56			225				
A-C	696	174			696				

#### 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-C	295	74	423	0.697	355	18.0	2.9	79.032	F
B-A	125	31	203	0.615	154	9.3	2.1	99.031	F
C-AB	159	40	501	0.317	160	0.8	0.5	11.658	B
C-A	433	108			433				
A-B	183	46			183				
A-C	568	142			568				

#### 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-C	247	62	555	0.445	255	2.9	0.9	13.542	B
B-A	105	26	321	0.326	111	2.1	0.5	19.299	C
C-AB	133	33	526	0.252	133	0.5	0.4	10.109	B
C-A	363	91			363				
A-B	154	38			154				
A-C	476	119			476				

# 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	7.93	A

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Traffic Demand

### Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Dawley Rd (N)		ONE HOUR	✓	966	100.000
B - Botwell Common Rod		ONE HOUR	✓	285	100.000
C - Dawley Rd (S)		ONE HOUR	✓	906	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	483	483
	B - Botwell Common Rod	126	0	159
	C - Dawley Rd (S)	656	250	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	0.52	24.21	1.1	C	146	219
B-A	0.68	59.18	2.1	F	116	173
C-AB	0.64	21.00	2.2	C	253	380
C-A					578	867
A-B					443	665
A-C					443	665

## 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-C	120	30	556	0.215	119	0.0	0.3	9.022	A
B-A	95	24	339	0.279	93	0.0	0.4	15.975	C
C-AB	190	48	509	0.374	188	0.0	0.6	12.217	B
C-A	492	123			492				
A-B	364	91			364				
A-C	364	91			364				

### 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-C	143	36	496	0.288	142	0.3	0.4	11.165	B
B-A	113	28	285	0.397	112	0.4	0.7	22.712	C
C-AB	234	59	493	0.475	233	0.6	1.0	15.136	C
C-A	580	145			580				
A-B	434	109			434				
A-C	434	109			434				

### 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-C	175	44	354	0.495	173	0.4	1.0	21.607	C
B-A	139	35	206	0.674	134	0.7	1.9	51.902	F
C-AB	335	84	525	0.638	331	1.0	2.1	20.145	C
C-A	662	166			662				
A-B	532	133			532				
A-C	532	133			532				

### 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-C	175	44	338	0.519	175	1.0	1.1	24.208	C
B-A	139	35	203	0.683	138	1.9	2.1	59.181	F



C-AB	335	84	525	0.638	335	2.1	2.2	21.000	C
C-A	662	166			662				
A-B	532	133			532				
A-C	532	133			532				

#### 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-C	143	36	485	0.295	146	1.1	0.5	11.749	B
B-A	113	28	283	0.400	119	2.1	0.8	24.784	C
C-AB	234	59	493	0.475	239	2.2	1.1	15.853	C
C-A	580	145			580				
A-B	434	109			434				
A-C	434	109			434				

#### 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-C	120	30	553	0.217	120	0.5	0.3	9.174	A
B-A	95	24	338	0.280	96	0.8	0.4	16.439	C
C-AB	190	48	509	0.374	192	1.1	0.7	12.537	B
C-A	492	123			492				
A-B	364	91			364				
A-C	364	91			364				

## 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	422.48	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 - Dawley Rd (N)		ONE HOUR	✓	1187	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	940	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	907
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	710	230	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.10	1887.35	172.8	F	401	601
B-A	2.08	1931.96	66.5	F	153	230
C-AB	0.67	24.01	2.7	C	243	365
C-A					619	929
A-B					257	385
A-C					832	1248

### 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-C	329	82	433	0.760	317	0.0	3.0	31.550	D
B-A	126	31	191	0.657	119	0.0	1.8	50.597	F
C-AB	175	44	474	0.370	173	0.0	0.6	13.055	B
C-A	532	133			532				

A-B	211	53			211				
A-C	683	171			683				

**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-C	393	98	317	1.238	309	3.0	24.0	198.548	F
B-A	150	38	123	1.218	115	1.8	10.6	261.470	F
C-AB	218	54	453	0.480	216	0.6	1.0	16.617	C
C-A	627	157			627				
A-B	252	63			252				
A-C	815	204			815				

**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-C	481	120	229	2.103	229	24.0	87.2	883.747	F
B-A	184	46	90	2.052	89	10.6	34.2	948.574	F
C-AB	337	84	504	0.669	331	1.0	2.5	22.593	C
C-A	698	174			698				
A-B	308	77			308				
A-C	999	250			999				

**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-C	481	120	229	2.101	229	87.2	150.2	1887.354	F
B-A	184	46	89	2.077	88	34.2	58.1	1931.963	F
C-AB	337	84	504	0.669	337	2.5	2.7	24.011	C
C-A	698	174			698				
A-B	308	77			308				
A-C	999	250			999				

**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-C	393	98	303	1.298	303	150.2	172.8	1807.522	F
B-A	150	38	117	1.288	116	58.1	66.5	1835.828	F
C-AB	218	54	453	0.480	224	2.7	1.1	17.764	C
C-A	627	157			627				
A-B	252	63			252				
A-C	815	204			815				

**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-C	329	82	346	0.951	344	172.8	169.1	1791.084	F
B-A	126	31	133	0.947	131	66.5	65.3	1816.172	F
C-AB	175	44	474	0.370	177	1.1	0.7	13.432	B
C-A	532	133			532				
A-B	211	53			211				
A-C	683	171			683				

# 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	269.95	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 - Dawley Rd (N)		ONE HOUR	✓	1092	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1310	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	573
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	974	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.16	1793.93	70.2	F	190	285
B-A	2.16	1795.49	67.5	F	183	274
C-AB	0.92	46.85	19.7	E	575	863
C-A					627	940
A-B					476	714
A-C					526	789

## 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-C	156	39	421	0.370	153	0.0	0.6	14.649	B
B-A	150	37	260	0.577	144	0.0	1.4	32.997	D
C-AB	273	68	522	0.523	268	0.0	1.2	15.361	C
C-A	713	178			713				
A-B	391	98			391				
A-C	431	108			431				

### 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-C	186	47	182	1.024	160	0.6	7.2	131.596	F
B-A	179	45	178	1.007	157	1.4	6.9	138.235	F
C-AB	399	100	594	0.673	394	1.2	2.6	19.671	C
C-A	778	195			778				
A-B	467	117			467				
A-C	515	129			515				

### 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-C	228	57	114	2.006	113	7.2	36.0	752.168	F
B-A	219	55	109	2.009	108	6.9	34.6	752.803	F
C-AB	1054	263	1143	0.922	1007	2.6	14.3	29.488	D
C-A	388	97			388				
A-B	571	143			571				
A-C	631	158			631				

### 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-C	228	57	106	2.156	106	36.0	66.6	1793.934	F
B-A	219	55	102	2.157	101	34.6	64.0	1795.491	F

C-AB	1054	263	1143	0.922	1032	14.3	19.7	46.853	E
C-A	388	97			388				
A-B	571	143			571				
A-C	631	158			631				

#### 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-C	186	47	172	1.082	172	66.6	70.2	1335.577	F
B-A	179	45	165	1.082	165	64.0	67.5	1336.408	F
C-AB	399	100	594	0.673	464	19.7	3.4	45.230	E
C-A	778	195			778				
A-B	467	117			467				
A-C	515	129			515				

#### 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-C	156	39	222	0.703	218	70.2	54.6	1031.531	F
B-A	150	37	213	0.703	210	67.5	52.5	1032.538	F
C-AB	273	68	522	0.523	281	3.4	1.4	17.049	C
C-A	713	178			713				
A-B	391	98			391				
A-C	431	108			431				

## 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	423.29	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 - Dawley Rd (N)		ONE HOUR	✓	1177	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	967	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	897
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	737	230	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.11	1903.13	173.4	F	401	601
B-A	2.09	1947.86	66.8	F	153	230
C-AB	0.66	23.55	2.7	C	244	365
C-A					644	966
A-B					257	385
A-C					823	1235

### 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-C	329	82	433	0.759	317	0.0	3.0	31.437	D
B-A	126	31	191	0.659	119	0.0	1.8	50.832	F
C-AB	175	44	475	0.369	173	0.0	0.6	12.983	B
C-A	553	138			553				

A-B	211	53			211				
A-C	675	169			675				

**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-C	393	98	317	1.240	308	3.0	24.1	199.476	F
B-A	150	38	123	1.219	115	1.8	10.6	262.648	F
C-AB	218	54	456	0.478	216	0.6	1.0	16.469	C
C-A	651	163			651				
A-B	252	63			252				
A-C	806	202			806				

**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-C	481	120	228	2.112	228	24.1	87.5	890.200	F
B-A	184	46	89	2.061	89	10.6	34.4	955.052	F
C-AB	337	84	508	0.665	332	1.0	2.5	22.203	C
C-A	727	182			727				
A-B	308	77			308				
A-C	988	247			988				

**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-C	481	120	228	2.111	228	87.5	150.8	1903.128	F
B-A	184	46	88	2.086	88	34.4	58.3	1947.856	F
C-AB	337	84	508	0.665	337	2.5	2.7	23.546	C
C-A	727	182			727				
A-B	308	77			308				
A-C	988	247			988				

**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-C	393	98	303	1.298	303	150.8	173.4	1812.950	F
B-A	150	38	117	1.288	116	58.3	66.8	1841.220	F
C-AB	218	54	456	0.478	224	2.7	1.1	17.570	C
C-A	651	163			651				
A-B	252	63			252				
A-C	806	202			806				

**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-C	329	82	346	0.951	344	173.4	169.6	1795.422	F
B-A	126	31	133	0.946	131	66.8	65.5	1820.478	F
C-AB	175	44	475	0.369	177	1.1	0.7	13.353	B
C-A	553	138			553				
A-B	211	53			211				
A-C	675	169			675				



# 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	308.60	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 - Dawley Rd (N)		ONE HOUR	✓	1119	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1316	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	600
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	980	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.34	2070.06	76.3	F	190	285
B-A	2.34	2071.59	73.3	F	183	274
C-AB	0.94	54.92	22.8	F	601	902
C-A					606	910
A-B					476	714
A-C					551	826

## 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-C	156	39	412	0.379	153	0.0	0.7	15.177	C
B-A	150	37	254	0.590	144	0.0	1.4	34.529	D
C-AB	274	69	519	0.528	269	0.0	1.3	15.575	C
C-A	716	179			716				
A-B	391	98			391				
A-C	452	113			452				

### 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-C	186	47	176	1.055	157	0.7	8.0	145.319	F
B-A	179	45	173	1.037	154	1.4	7.6	152.810	F
C-AB	407	102	597	0.681	401	1.3	2.7	19.987	C
C-A	776	194			776				
A-B	467	117			467				
A-C	539	135			539				

### 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-C	228	57	107	2.138	106	8.0	38.4	848.007	F
B-A	219	55	102	2.141	102	7.6	36.9	848.393	F
C-AB	1122	281	1198	0.937	1069	2.7	16.2	31.064	D
C-A	327	82			327				
A-B	571	143			571				
A-C	661	165			661				

### 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-C	228	57	98	2.337	97	38.4	71.0	2070.061	F
B-A	219	55	94	2.338	94	36.9	68.3	2071.594	F

C-AB	1122	281	1198	0.937	1096	16.2	22.8	52.144	F
C-A	327	82			327				
A-B	571	143			571				
A-C	661	165			661				

#### 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-C	186	47	165	1.124	165	71.0	76.3	1456.080	F
B-A	179	45	159	1.125	159	68.3	73.3	1456.867	F
C-AB	407	102	597	0.681	483	22.8	3.7	54.916	F
C-A	776	194			776				
A-B	467	117			467				
A-C	539	135			539				

#### 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-C	156	39	218	0.715	215	76.3	61.5	1155.612	F
B-A	150	37	210	0.715	207	73.3	59.1	1156.581	F
C-AB	274	69	519	0.528	283	3.7	1.4	17.441	C
C-A	716	179			716				
A-B	391	98			391				
A-C	452	113			452				

## 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	481.05	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
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 - Dawley Rd (N)		ONE HOUR	✓	1209	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	956	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	924
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	722	234	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.23	2148.29	189.2	F	408	613
B-A	2.21	2192.56	73.2	F	157	235
C-AB	0.69	24.93	3.1	C	254	381
C-A					624	935
A-B					262	392
A-C					848	1272

### 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-C	335	84	418	0.802	320	0.0	3.6	36.720	E
B-A	129	32	180	0.714	120	0.0	2.2	59.422	F
C-AB	179	45	471	0.379	176	0.0	0.7	13.316	B
C-A	541	135			541				

A-B	215	54			215				
A-C	696	174			696				

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-C	400	100	308	1.299	302	3.6	28.2	237.207	F
B-A	154	38	121	1.274	114	2.2	12.1	301.570	F
C-AB	223	56	452	0.494	222	0.7	1.1	17.063	C
C-A	636	159			636				
A-B	256	64			256				
A-C	831	208			831				

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-C	490	122	220	2.229	220	28.2	95.8	1010.302	F
B-A	188	47	86	2.183	86	12.1	37.7	1071.672	F
C-AB	359	90	521	0.690	352	1.1	2.8	23.199	C
C-A	693	173			693				
A-B	314	78			314				
A-C	1017	254			1017				

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-C	490	122	219	2.233	219	95.8	163.4	2148.293	F
B-A	188	47	85	2.211	85	37.7	63.5	2192.561	F
C-AB	359	90	521	0.690	358	2.8	3.1	24.927	C
C-A	693	173			693				
A-B	314	78			314				
A-C	1017	254			1017				

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-C	400	100	297	1.348	297	163.4	189.2	1990.906	F
B-A	154	38	115	1.339	115	63.5	73.2	2018.683	F
C-AB	223	56	452	0.494	231	3.1	1.2	18.477	C
C-A	636	159			636				
A-B	256	64			256				
A-C	831	208			831				

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-C	335	84	341	0.981	339	189.2	188.1	2000.964	F
B-A	129	32	132	0.977	130	73.2	72.8	2025.524	F
C-AB	179	45	471	0.379	181	1.2	0.7	13.738	B
C-A	541	135			541				
A-B	215	54			215				
A-C	696	174			696				

# 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	347.47	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 - Dawley Rd (N)		ONE HOUR	✓	1118	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1335	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	586
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	992	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.48	2284.53	82.5	F	194	290
B-A	2.48	2285.97	79.4	F	186	279
C-AB	0.96	71.18	27.5	F	646	969
C-A					579	869
A-B					488	732
A-C					538	807

## 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-C	159	40	404	0.393	156	0.0	0.7	15.778	C
B-A	153	38	251	0.608	147	0.0	1.5	36.042	E
C-AB	282	71	524	0.539	277	0.0	1.3	15.768	C
C-A	723	181			723				
A-B	401	100			401				
A-C	441	110			441				

### 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-C	190	47	175	1.086	157	0.7	8.8	158.224	F
B-A	182	46	171	1.066	155	1.5	8.4	166.524	F
C-AB	427	107	614	0.695	420	1.3	2.9	20.244	C
C-A	773	193			773				
A-B	478	120			478				
A-C	527	132			527				

### 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-C	232	58	105	2.223	104	8.8	40.9	919.650	F
B-A	224	56	100	2.226	100	8.4	39.3	919.787	F
C-AB	1229	307	1285	0.956	1165	2.9	18.9	33.233	D
C-A	241	60			241				
A-B	586	146			586				
A-C	645	161			645				

### 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-C	232	58	94	2.477	94	40.9	75.5	2284.530	F
B-A	224	56	90	2.478	90	39.3	72.6	2285.967	F

C-AB	1229	307	1285	0.956	1194	18.9	27.5	61.185	F
C-A	241	60			241				
A-B	586	146			586				
A-C	645	161			645				

#### 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-C	190	47	162	1.172	162	75.5	82.5	1563.044	F
B-A	182	46	156	1.173	155	72.6	79.4	1563.771	F
C-AB	427	107	614	0.695	520	27.5	4.1	71.184	F
C-A	773	193			773				
A-B	478	120			478				
A-C	527	132			527				

#### 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-C	159	40	217	0.732	214	82.5	68.7	1272.856	F
B-A	153	38	209	0.732	206	79.4	66.1	1273.769	F
C-AB	282	71	524	0.539	293	4.1	1.5	17.927	C
C-A	723	181			723				
A-B	401	100			401				
A-C	441	110			441				

## 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	481.40	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 - Dawley Rd (N)		ONE HOUR	✓	1198	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	983	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	913
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	749	234	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.24	2162.58	189.7	F	408	613
B-A	2.22	2206.99	73.4	F	157	235
C-AB	0.69	24.39	3.0	C	254	381
C-A					648	972
A-B					262	392
A-C					838	1257

### 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-C	335	84	418	0.801	321	0.0	3.6	36.523	E
B-A	129	32	180	0.714	120	0.0	2.2	59.528	F
C-AB	179	45	473	0.378	176	0.0	0.7	13.234	B
C-A	561	140			561				

A-B	215	54			215				
A-C	687	172			687				

**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-C	400	100	308	1.300	301	3.6	28.3	237.752	F
B-A	154	38	121	1.274	114	2.2	12.1	302.374	F
C-AB	223	56	455	0.491	222	0.7	1.1	16.892	C
C-A	660	165			660				
A-B	256	64			256				
A-C	821	205			821				

**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-C	490	122	219	2.238	219	28.3	96.0	1015.549	F
B-A	188	47	86	2.192	86	12.1	37.8	1076.983	F
C-AB	359	90	524	0.685	352	1.1	2.8	22.760	C
C-A	723	181			723				
A-B	314	78			314				
A-C	1005	251			1005				

**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-C	490	122	219	2.242	219	96.0	163.9	2162.583	F
B-A	188	47	85	2.219	85	37.8	63.6	2206.987	F
C-AB	359	90	524	0.685	358	2.8	3.0	24.388	C
C-A	723	181			723				
A-B	314	78			314				
A-C	1005	251			1005				

**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-C	400	100	297	1.347	297	163.9	189.7	1993.944	F
B-A	154	38	115	1.338	115	63.6	73.4	2021.691	F
C-AB	223	56	455	0.491	231	3.0	1.2	18.245	C
C-A	660	165			660				
A-B	256	64			256				
A-C	821	205			821				

**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-C	335	84	342	0.980	340	189.7	188.5	2002.590	F
B-A	129	32	132	0.975	131	73.4	72.7	2027.119	F
C-AB	179	45	473	0.378	181	1.2	0.7	13.644	B
C-A	561	140			561				
A-B	215	54			215				
A-C	687	172			687				

# 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	407.65	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 - Dawley Rd (N)		ONE HOUR	✓	1146	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1341	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	614
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	998	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.74	2691.61	89.4	F	194	290
B-A	2.74	2693.12	86.0	F	186	279
C-AB	0.97	91.80	32.3	F	679	1019
C-A					551	827
A-B					488	732
A-C					563	845

## 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-C	159	40	394	0.403	156	0.0	0.7	16.456	C
B-A	153	38	245	0.623	146	0.0	1.6	37.923	E
C-AB	284	71	522	0.544	278	0.0	1.4	15.993	C
C-A	726	181			726				
A-B	401	100			401				
A-C	462	116			462				

### 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-C	190	47	169	1.122	154	0.7	9.7	176.787	F
B-A	182	46	166	1.100	152	1.6	9.2	186.284	F
C-AB	436	109	620	0.703	429	1.4	3.1	20.582	C
C-A	770	192			770				
A-B	478	120			478				
A-C	552	138			552				

### 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-C	232	58	97	2.392	97	9.7	43.6	1043.090	F
B-A	224	56	93	2.396	93	9.2	41.9	1043.164	F
C-AB	1319	330	1356	0.972	1245	3.1	21.5	35.601	E
C-A	158	39			158				
A-B	586	146			586				
A-C	676	169			676				

### 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-C	232	58	85	2.743	85	43.6	80.5	2691.605	F
B-A	224	56	81	2.745	81	41.9	77.4	2693.118	F

C-AB	1319	330	1356	0.972	1275	21.5	32.3	69.792	F
C-A	158	39			158				
A-B	586	146			586				
A-C	676	169			676				

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-C	190	47	154	1.230	154	80.5	89.4	1707.114	F
B-A	182	46	148	1.231	148	77.4	86.0	1707.815	F
C-AB	436	109	620	0.703	547	32.3	4.4	91.797	F
C-A	770	192			770				
A-B	478	120			478				
A-C	552	138			552				

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-C	159	40	213	0.745	211	89.4	76.5	1419.976	F
B-A	153	38	205	0.745	202	86.0	73.6	1420.872	F
C-AB	284	71	522	0.544	296	4.4	1.5	18.426	C
C-A	726	181			726				
A-B	401	100			401				
A-C	462	116			462				

# Junctions 9

## PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []  
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**Filename:** J1 - Dawley Rd- Botwell Common Rd Priority Junction mitigation.j9  
**Path:** C:\Users\Jenny Baker\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2029 Cumulative  
**Report generation date:** 25/01/2017 16:41:18

- »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
2029 Baseline								
Stream B-C	145.7	1494.39	1.93	F	77.2	2265.12	2.57	F
Stream B-A	56.6	1538.85	1.90	F	74.5	2272.58	2.56	F
Stream C-AB	3.1	24.95	0.69	C	31.0	85.62	0.97	F
2029 Baseline+Dev								
Stream B-C	155.2	1671.01	2.04	F	89.4	3045.15	3.09	F
Stream B-A	60.2	1716.59	2.01	F	86.0	3046.50	3.09	F
Stream C-AB	3.3	25.03	0.70	D	37.7	116.08	0.99	F

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	333.13	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Dawley Rd (N)		Major
B	Botwell Common Rod		Minor
C	Dawley Rd (S)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Dawley Rd (S)	9.60		✓	2.20	150.0	✓	5.00

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

## Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Botwell Common Rod	One lane plus flare	10.00	6.50	6.50	6.50	3.80	✓	3.00	160	88

## 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	552	0.085	0.215	0.135	0.306
1	B-C	787	0.102	0.257	-	-
1	C-B	661	0.216	0.216	-	-

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 - Dawley Rd (N)		ONE HOUR	✓	1216	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	975	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	931
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	741	234	0

## Vehicle Mix



## Heavy Vehicle Percentages

From	To		
	A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
A - Dawley Rd (N)	10	10	10
B - Botwell Common Rod	10	10	10
C - Dawley Rd (S)	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-C	1.93	1494.39	145.7	F	408	613
B-A	1.90	1538.85	56.6	F	157	235
C-AB	0.69	24.95	3.1	C	256	384
C-A					639	958
A-B					262	392
A-C					854	1281

### 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-C	335	84	495	0.677	326	0.0	2.1	22.521	C
B-A	129	32	234	0.551	124	0.0	1.2	34.660	D
C-AB	179	45	470	0.380	176	0.0	0.7	13.359	B
C-A	555	139			555				
A-B	215	54			215				
A-C	701	175			701				

#### 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-C	400	100	367	1.091	347	2.1	15.3	120.815	F
B-A	154	38	142	1.079	128	1.2	7.7	178.551	F
C-AB	224	56	452	0.495	222	0.7	1.1	17.124	C
C-A	653	163			653				
A-B	256	64			256				
A-C	837	209			837				

#### 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-C	490	122	253	1.933	253	15.3	74.5	659.595	F
B-A	188	47	101	1.868	100	7.7	29.8	730.954	F
C-AB	364	91	526	0.693	357	1.1	2.9	23.172	C

C-A	709	177			709				
A-B	314	78			314				
A-C	1025	256			1025				

#### 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-C	490	122	254	1.929	254	74.5	133.5	1494.389	F
B-A	188	47	99	1.900	99	29.8	52.1	1538.849	F
C-AB	364	91	526	0.693	363	2.9	3.1	24.952	C
C-A	709	177			709				
A-B	314	78			314				
A-C	1025	256			1025				

#### 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-C	400	100	351	1.138	351	133.5	145.7	1378.650	F
B-A	154	38	136	1.128	136	52.1	56.6	1404.515	F
C-AB	224	56	452	0.495	232	3.1	1.2	18.593	C
C-A	653	163			653				
A-B	256	64			256				
A-C	837	209			837				

#### 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-C	335	84	400	0.837	397	145.7	130.2	1251.209	F
B-A	129	32	155	0.832	152	56.6	50.8	1274.849	F
C-AB	179	45	470	0.380	181	1.2	0.7	13.786	B
C-A	555	139			555				
A-B	215	54			215				
A-C	701	175			701				

## 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	345.42	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 - Dawley Rd (N)		ONE HOUR	✓	1138	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1349	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	606
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	1006	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.57	2265.12	77.2	F	194	290
B-A	2.56	2272.58	74.5	F	186	279
C-AB	0.97	85.62	31.0	F	673	1009
C-A					565	847
A-B					488	732
A-C					556	834

### 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-C	159	40	476	0.334	157	0.0	0.5	12.314	B
B-A	153	38	264	0.579	147	0.0	1.4	32.637	D
C-AB	284	71	523	0.543	278	0.0	1.4	15.916	C
C-A	732	183			732				
A-B	401	100			401				
A-C	456	114			456				

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-C	190	47	203	0.934	170	0.5	5.4	93.214	F
B-A	182	46	190	0.960	164	1.4	5.9	119.770	F
C-AB	434	109	620	0.701	428	1.4	3.0	20.429	C
C-A	778	195			778				
A-B	478	120			478				
A-C	545	136			545				

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-C	232	58	103	2.246	103	5.4	37.8	825.803	F
B-A	224	56	101	2.218	100	5.9	36.8	842.761	F
C-AB	1301	325	1344	0.968	1230	3.0	20.8	34.728	D
C-A	185	46			185				
A-B	586	146			586				
A-C	667	167			667				

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-C	232	58	90	2.571	90	37.8	73.3	2265.118	F
B-A	224	56	87	2.559	87	36.8	70.9	2272.580	F
C-AB	1301	325	1344	0.968	1260	20.8	31.0	67.016	F
C-A	185	46			185				
A-B	586	146			586				
A-C	667	167			667				

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-C	190	47	174	1.089	174	73.3	77.2	1375.288	F
B-A	182	46	168	1.085	168	70.9	74.5	1377.516	F
C-AB	434	109	620	0.701	541	31.0	4.3	85.625	F
C-A	778	195			778				
A-B	478	120			478				
A-C	545	136			545				

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
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B-C	159	40	251	0.633	247	77.2	55.1	966.416	F
B-A	153	38	242	0.632	238	74.5	53.2	967.849	F
C-AB	284	71	523	0.543	295	4.3	1.5	18.270	C
C-A	732	183			732				
A-B	401	100			401				
A-C	456	114			456				

## 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	365.88	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 - Dawley Rd (N)		ONE HOUR	✓	1230	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1008	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	945
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	774	234	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To		
	A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
A - Dawley Rd (N)	10	10	10
B - Botwell Common Rod	10	10	10
C - Dawley Rd (S)	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-C	2.04	1671.01	155.2	F	408	613
B-A	2.01	1716.59	60.2	F	157	235
C-AB	0.70	25.03	3.3	D	260	389
C-A					665	998
A-B					262	392
A-C					867	1301

### 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-C	335	84	489	0.684	326	0.0	2.2	23.177	C
B-A	129	32	228	0.565	124	0.0	1.3	36.417	E
C-AB	179	45	468	0.382	176	0.0	0.7	13.449	B
C-A	580	145			580				
A-B	215	54			215				
A-C	711	178			711				

#### 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-C	400	100	358	1.117	341	2.2	16.8	133.377	F
B-A	154	38	139	1.104	126	1.3	8.2	192.433	F
C-AB	225	56	451	0.498	223	0.7	1.1	17.251	C
C-A	681	170			681				
A-B	256	64			256				
A-C	850	212			850				

#### 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-C	490	122	241	2.035	240	16.8	79.2	735.702	F
B-A	188	47	96	1.970	95	8.2	31.6	806.901	F
C-AB	375	94	536	0.699	367	1.1	3.0	23.152	C

C-A	735	184			735				
A-B	314	78			314				
A-C	1040	260			1040				

#### 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-C	490	122	241	2.035	241	79.2	141.5	1671.008	F
B-A	188	47	94	2.005	94	31.6	55.2	1716.589	F
C-AB	375	94	536	0.699	374	3.0	3.3	25.035	D
C-A	735	184			735				
A-B	314	78			314				
A-C	1040	260			1040				

#### 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-C	400	100	346	1.158	345	141.5	155.2	1475.622	F
B-A	154	38	134	1.148	134	55.2	60.2	1501.507	F
C-AB	225	56	451	0.498	233	3.3	1.2	18.842	C
C-A	681	170			681				
A-B	256	64			256				
A-C	850	212			850				

#### 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-C	335	84	397	0.845	394	155.2	140.5	1352.382	F
B-A	129	32	153	0.839	151	60.2	54.8	1375.761	F
C-AB	179	45	468	0.382	181	1.2	0.7	13.889	B
C-A	580	145			580				
A-B	215	54			215				
A-C	711	178			711				

## 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	457.04	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 - Dawley Rd (N)		ONE HOUR	✓	1170	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1375	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	638
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	1032	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	3.09	3045.15	89.4	F	194	290
B-A	3.09	3046.50	86.0	F	186	279
C-AB	0.99	116.08	37.7	F	723	1084
C-A					539	808
A-B					488	732
A-C					585	878

### 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-C	159	40	465	0.342	157	0.0	0.6	12.754	B
B-A	153	38	255	0.599	147	0.0	1.5	34.959	D
C-AB	286	72	521	0.549	280	0.0	1.4	16.150	C
C-A	749	187			749				
A-B	401	100			401				
A-C	480	120			480				

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-C	190	47	184	1.033	162	0.6	7.5	137.453	F
B-A	182	46	180	1.012	160	1.5	7.1	145.160	F
C-AB	448	112	631	0.711	441	1.4	3.2	20.704	C
C-A	788	197			788				
A-B	478	120			478				
A-C	574	143			574				

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-C	232	58	92	2.534	91	7.5	42.8	1047.905	F
B-A	224	56	88	2.540	88	7.1	41.1	1047.117	F
C-AB	1434	358	1453	0.987	1349	3.2	24.4	37.533	E
C-A	80	20			80				
A-B	586	146			586				
A-C	702	176			702				

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-C	232	58	75	3.086	75	42.8	82.1	3045.151	F
B-A	224	56	72	3.088	72	41.1	78.9	3046.500	F
C-AB	1434	358	1453	0.987	1380	24.4	37.7	77.910	F
C-A	80	20			80				
A-B	586	146			586				
A-C	702	176			702				

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-C	190	47	160	1.183	160	82.1	89.4	1594.782	F
B-A	182	46	154	1.183	154	78.9	86.0	1595.325	F
C-AB	448	112	631	0.711	580	37.7	4.8	116.082	F
C-A	788	197			788				
A-B	478	120			478				
A-C	574	143			574				

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>B-C</b>	159	40	244	0.652	241	89.4	68.9	1186.485	F
<b>B-A</b>	153	38	234	0.652	231	86.0	66.3	1187.278	F
<b>C-AB</b>	286	72	521	0.549	299	4.8	1.6	18.875	C
<b>C-A</b>	749	187			749				
<b>A-B</b>	401	100			401				
<b>A-C</b>	480	120			480				

# 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:** J1 - Dawley Rd- Botwell Common Rd 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 10:30:54

- »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-C	176.8	1971.91	2.15	F	75.7	2044.15	2.32	F
Stream B-A	68.1	2016.93	2.12	F	72.8	2045.68	2.32	F
Stream C-AB	2.8	24.04	0.67	C	22.1	52.19	0.93	F
<b>2024 Baseline+Dev</b>								
Stream B-C	184.7	2152.73	2.25	F	85.1	2573.01	2.66	F
Stream B-A	71.1	2198.70	2.22	F	81.8	2574.57	2.66	F
Stream C-AB	2.9	24.16	0.68	C	26.6	67.71	0.95	F

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-PSYLLID\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	437.06	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Dawley Rd (N)		Major
B	Botwell Common Rod		Minor
C	Dawley Rd (S)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Dawley Rd (S)	9.60		✓	2.20	150.0	✓	5.00

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

## Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Botwell Common Rod	One lane plus flare	10.00	6.50	5.00	4.00	3.80		1.00	160	88

## 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	560	0.086	0.217	0.137	0.310
1	B-C	777	0.100	0.254	-	-
1	C-B	661	0.216	0.216	-	-

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 - Dawley Rd (N)		ONE HOUR	✓	1194	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	959	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	914
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	729	230	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To		
	A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
A - Dawley Rd (N)	10	10	10
B - Botwell Common Rod	10	10	10
C - Dawley Rd (S)	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-C	2.15	1971.91	176.8	F	401	601
B-A	2.12	2016.93	68.1	F	153	230
C-AB	0.67	24.04	2.8	C	245	368
C-A					635	952
A-B					257	385
A-C					839	1258

### 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-C	329	82	429	0.767	317	0.0	3.1	32.448	D
B-A	126	31	188	0.669	118	0.0	1.9	52.502	F
C-AB	175	44	473	0.371	173	0.0	0.6	13.093	B
C-A	547	137			547				
A-B	211	53			211				
A-C	688	172			688				

#### 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-C	393	98	313	1.253	306	3.1	24.9	208.004	F
B-A	150	38	122	1.232	114	1.9	10.9	271.738	F
C-AB	218	55	453	0.482	217	0.6	1.0	16.679	C
C-A	644	161			644				
A-B	252	63			252				
A-C	822	205			822				

#### 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-C	481	120	224	2.147	224	24.9	89.3	922.281	F
B-A	184	46	88	2.097	87	10.9	35.0	986.767	F
C-AB	342	85	509	0.672	335	1.0	2.6	22.585	C

C-A	714	179			714				
A-B	308	77			308				
A-C	1006	252			1006				

#### 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-C	481	120	224	2.147	224	89.3	153.5	1971.909	F
B-A	184	46	87	2.123	87	35.0	59.4	2016.926	F
C-AB	342	85	509	0.672	341	2.6	2.8	24.041	C
C-A	714	179			714				
A-B	308	77			308				
A-C	1006	252			1006				

#### 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-C	393	98	300	1.309	300	153.5	176.8	1857.649	F
B-A	150	38	115	1.300	115	59.4	68.1	1885.945	F
C-AB	218	55	453	0.482	225	2.8	1.1	17.869	C
C-A	644	161			644				
A-B	252	63			252				
A-C	822	205			822				

#### 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-C	329	82	344	0.957	342	176.8	173.5	1844.831	F
B-A	126	31	132	0.952	130	68.1	67.0	1869.886	F
C-AB	175	44	473	0.371	177	1.1	0.7	13.481	B
C-A	547	137			547				
A-B	211	53			211				
A-C	688	172			688				

## 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	304.08	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 - Dawley Rd (N)		ONE HOUR	✓	1112	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1324	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	593
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	988	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.32	2044.15	75.7	F	190	285
B-A	2.32	2045.68	72.8	F	183	274
C-AB	0.93	52.19	22.1	F	597	896
C-A					618	927
A-B					476	714
A-C					544	816

### 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-C	156	39	413	0.377	153	0.0	0.6	15.103	C
B-A	150	37	254	0.589	144	0.0	1.4	34.410	D
C-AB	274	69	520	0.527	269	0.0	1.3	15.507	C
C-A	723	181			723				
A-B	391	98			391				
A-C	446	112			446				

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-C	186	47	177	1.053	157	0.6	7.9	144.136	F
B-A	179	45	173	1.034	155	1.4	7.5	151.556	F
C-AB	406	101	598	0.679	400	1.3	2.7	19.858	C
C-A	785	196			785				
A-B	467	117			467				
A-C	533	133			533				

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-C	228	57	107	2.128	107	7.9	38.2	839.911	F
B-A	219	55	103	2.131	102	7.5	36.7	840.304	F
C-AB	1111	278	1191	0.933	1059	2.7	15.8	30.485	D
C-A	347	87			347				
A-B	571	143			571				
A-C	653	163			653				

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-C	228	57	98	2.319	98	38.2	70.7	2044.151	F
B-A	219	55	94	2.320	94	36.7	67.9	2045.681	F
C-AB	1111	278	1191	0.933	1086	15.8	22.1	50.518	F
C-A	347	87			347				
A-B	571	143			571				
A-C	653	163			653				

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-C	186	47	166	1.119	166	70.7	75.7	1444.223	F
B-A	179	45	160	1.119	160	67.9	72.8	1445.014	F
C-AB	406	101	598	0.679	480	22.1	3.6	52.192	F
C-A	785	196			785				
A-B	467	117			467				
A-C	533	133			533				

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
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B-C	156	39	218	0.713	215	75.7	60.8	1143.637	F
B-A	150	37	210	0.713	207	72.8	58.5	1144.609	F
C-AB	274	69	520	0.527	283	3.6	1.4	17.329	C
C-A	723	181			723				
A-B	391	98			391				
A-C	446	112			446				

## 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	468.62	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 - Dawley Rd (N)		ONE HOUR	✓	1209	100.000
B - Botwell Common Rod		ONE HOUR	✓	604	100.000
C - Dawley Rd (S)		ONE HOUR	✓	992	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	280	929
	B - Botwell Common Rod	167	0	437
	C - Dawley Rd (S)	762	230	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To		
	A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
A - Dawley Rd (N)	10	10	10
B - Botwell Common Rod	10	10	10
C - Dawley Rd (S)	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-C	2.25	2152.73	184.7	F	401	601
B-A	2.22	2198.70	71.1	F	153	230
C-AB	0.68	24.16	2.9	C	248	373
C-A					662	993
A-B					257	385
A-C					852	1279

### 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-C	329	82	421	0.782	316	0.0	3.3	34.400	D
B-A	126	31	182	0.692	118	0.0	2.0	56.546	F
C-AB	176	44	471	0.373	173	0.0	0.6	13.191	B
C-A	571	143			571				
A-B	211	53			211				
A-C	699	175			699				

#### 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-C	393	98	306	1.285	299	3.3	26.8	228.202	F
B-A	150	38	119	1.260	112	2.0	11.5	293.731	F
C-AB	219	55	452	0.485	218	0.6	1.1	16.819	C
C-A	673	168			673				
A-B	252	63			252				
A-C	835	209			835				

#### 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-C	481	120	215	2.242	214	26.8	93.5	1002.659	F
B-A	184	46	84	2.193	83	11.5	36.6	1066.523	F
C-AB	351	88	517	0.678	344	1.1	2.7	22.611	C

C-A	742	185			742				
A-B	308	77			308				
A-C	1023	256			1023				

#### 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-C	481	120	214	2.245	214	93.5	160.2	2152.732	F
B-A	184	46	83	2.221	83	36.6	61.9	2198.704	F
C-AB	351	88	517	0.678	350	2.7	2.9	24.165	C
C-A	742	185			742				
A-B	308	77			308				
A-C	1023	256			1023				

#### 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-C	393	98	295	1.333	295	160.2	184.7	1959.439	F
B-A	150	38	113	1.324	113	61.9	71.1	1987.731	F
C-AB	219	55	452	0.485	226	2.9	1.1	18.106	C
C-A	673	168			673				
A-B	252	63			252				
A-C	835	209			835				

#### 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-C	329	82	340	0.967	338	184.7	182.4	1953.945	F
B-A	126	31	131	0.962	129	71.1	70.4	1978.956	F
C-AB	176	44	471	0.373	177	1.1	0.7	13.590	B
C-A	571	143			571				
A-B	211	53			211				
A-C	699	175			699				

## 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	376.63	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 - Dawley Rd (N)		ONE HOUR	✓	1143	100.000
B - Botwell Common Rod		ONE HOUR	✓	406	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1350	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	519	624
	B - Botwell Common Rod	199	0	207
	C - Dawley Rd (S)	1014	336	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.66	2573.01	85.1	F	190	285
B-A	2.66	2574.57	81.8	F	183	274
C-AB	0.95	67.71	26.6	F	636	953
C-A					603	905
A-B					476	714
A-C					573	859

### 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-C	156	39	399	0.391	153	0.0	0.7	15.932	C
B-A	150	37	245	0.610	144	0.0	1.6	37.001	E
C-AB	276	69	519	0.533	271	0.0	1.3	15.731	C
C-A	740	185			740				
A-B	391	98			391				
A-C	470	117			470				

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-C	186	47	169	1.103	152	0.7	9.1	169.042	F
B-A	179	45	165	1.082	150	1.6	8.7	178.061	F
C-AB	417	104	606	0.688	411	1.3	2.8	20.123	C
C-A	797	199			797				
A-B	467	117			467				
A-C	561	140			561				

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-C	228	57	96	2.368	96	9.1	42.1	1008.759	F
B-A	219	55	92	2.372	92	8.7	40.4	1008.891	F
C-AB	1214	304	1277	0.951	1152	2.8	18.3	32.262	D
C-A	272	68			272				
A-B	571	143			571				
A-C	687	172			687				

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-C	228	57	86	2.662	86	42.1	77.7	2573.007	F
B-A	219	55	82	2.663	82	40.4	74.7	2574.572	F
C-AB	1214	304	1277	0.951	1181	18.3	26.6	58.601	F
C-A	272	68			272				
A-B	571	143			571				
A-C	687	172			687				

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-C	186	47	157	1.189	156	77.7	85.1	1638.464	F
B-A	179	45	150	1.189	150	74.7	81.8	1639.201	F
C-AB	417	104	606	0.688	507	26.6	3.9	67.709	F
C-A	797	199			797				
A-B	467	117			467				
A-C	561	140			561				

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>B-C</b>	156	39	213	0.732	210	85.1	71.5	1343.582	F
<b>B-A</b>	150	37	205	0.732	202	81.8	68.8	1344.514	F
<b>C-AB</b>	276	69	519	0.533	286	3.9	1.4	17.791	C
<b>C-A</b>	740	185			740				
<b>A-B</b>	391	98			391				
<b>A-C</b>	470	117			470				

# 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:** J1 - Dawley Rd- Botwell Common Rd 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 15:44:51

- »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-C	193.5	2249.06	2.29	F	88.5	2637.86	2.71	F
Stream B-A	74.8	2293.88	2.26	F	85.2	2639.36	2.71	F
Stream C-AB	3.1	24.95	0.69	C	31.0	85.63	0.97	F
<b>2029 Baseline+Dev</b>								
Stream B-C	201.8	2458.98	2.40	F	99.0	3440.38	3.23	F
Stream B-A	78.1	2505.05	2.38	F	95.2	3442.17	3.23	F
Stream C-AB	3.3	25.03	0.70	D	37.7	116.08	0.99	F

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-PSYLLIDES\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	498.77	F

### Junction Network Options

Driving side	Lighting
Left	Normal/unknown

## Arms

### Arms

Arm	Name	Description	Arm type
A	Dawley Rd (N)		Major
B	Botwell Common Rod		Minor
C	Dawley Rd (S)		Major

### Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Dawley Rd (S)	9.60		✓	2.20	150.0	✓	5.00

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

## Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - Botwell Common Rod	One lane plus flare	10.00	6.50	5.00	4.00	3.80		1.00	160	88

## 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	560	0.086	0.217	0.137	0.311
1	B-C	777	0.100	0.254	-	-
1	C-B	661	0.216	0.216	-	-

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 - Dawley Rd (N)		ONE HOUR	✓	1216	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	975	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	931
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	741	234	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To		
	A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
A - Dawley Rd (N)	10	10	10
B - Botwell Common Rod	10	10	10
C - Dawley Rd (S)	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-C	2.29	2249.06	193.5	F	408	613
B-A	2.26	2293.88	74.8	F	157	235
C-AB	0.69	24.95	3.1	C	256	384
C-A					639	958
A-B					262	392
A-C					854	1281

### 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-C	335	84	413	0.811	320	0.0	3.8	37.974	E
B-A	129	32	177	0.727	120	0.0	2.3	61.965	F
C-AB	179	45	470	0.380	176	0.0	0.7	13.359	B
C-A	555	139			555				
A-B	215	54			215				
A-C	701	175			701				

#### 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-C	400	100	304	1.316	298	3.8	29.2	249.110	F
B-A	154	38	119	1.289	113	2.3	12.4	314.591	F
C-AB	224	56	452	0.495	222	0.7	1.1	17.124	C
C-A	653	163			653				
A-B	256	64			256				
A-C	837	209			837				

#### 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-C	490	122	215	2.281	215	29.2	98.1	1054.617	F
B-A	188	47	84	2.236	84	12.4	38.5	1115.733	F
C-AB	364	91	526	0.693	357	1.1	2.9	23.172	C

C-A	709	177			709				
A-B	314	78			314				
A-C	1025	256			1025				

#### 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-C	490	122	214	2.287	214	98.1	167.0	2249.058	F
B-A	188	47	83	2.265	83	38.5	64.8	2293.879	F
C-AB	364	91	526	0.693	363	2.9	3.1	24.952	C
C-A	709	177			709				
A-B	314	78			314				
A-C	1025	256			1025				

#### 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-C	400	100	294	1.360	294	167.0	193.5	2045.758	F
B-A	154	38	114	1.352	114	64.8	74.8	2073.540	F
C-AB	224	56	452	0.495	232	3.1	1.2	18.593	C
C-A	653	163			653				
A-B	256	64			256				
A-C	837	209			837				

#### 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-C	335	84	340	0.987	338	193.5	192.8	2059.652	F
B-A	129	32	131	0.982	129	74.8	74.8	2084.201	F
C-AB	179	45	470	0.380	181	1.2	0.7	13.789	B
C-A	555	139			555				
A-B	215	54			215				
A-C	701	175			701				

## 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	398.20	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 - Dawley Rd (N)		ONE HOUR	✓	1138	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1349	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	606
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	1006	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	2.71	2637.86	88.5	F	194	290
B-A	2.71	2639.36	85.2	F	186	279
C-AB	0.97	85.63	31.0	F	673	1009
C-A					565	847
A-B					488	732
A-C					556	834

### 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-C	159	40	396	0.402	156	0.0	0.7	16.344	C
B-A	153	38	246	0.621	146	0.0	1.6	37.721	E
C-AB	284	71	523	0.543	278	0.0	1.4	15.916	C
C-A	732	183			732				
A-B	401	100			401				
A-C	456	114			456				

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-C	190	47	170	1.118	154	0.7	9.6	174.614	F
B-A	182	46	167	1.096	152	1.6	9.1	183.984	F
C-AB	434	109	620	0.701	428	1.4	3.0	20.429	C
C-A	778	195			778				
A-B	478	120			478				
A-C	545	136			545				

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-C	232	58	98	2.374	97	9.6	43.3	1028.414	F
B-A	224	56	94	2.377	94	9.1	41.6	1028.477	F
C-AB	1301	325	1344	0.968	1230	3.0	20.8	34.728	D
C-A	185	46			185				
A-B	586	146			586				
A-C	667	167			667				

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-C	232	58	86	2.706	86	43.3	79.9	2637.860	F
B-A	224	56	83	2.708	82	41.6	76.9	2639.355	F
C-AB	1301	325	1344	0.968	1260	20.8	31.0	67.016	F
C-A	185	46			185				
A-B	586	146			586				
A-C	667	167			667				

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-C	190	47	155	1.221	155	79.9	88.5	1687.901	F
B-A	182	46	149	1.221	149	76.9	85.2	1688.603	F
C-AB	434	109	620	0.701	541	31.0	4.3	85.625	F
C-A	778	195			778				
A-B	478	120			478				
A-C	545	136			545				

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
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B-C	159	40	214	0.744	211	88.5	75.5	1400.826	F
B-A	153	38	206	0.744	203	85.2	72.6	1401.722	F
C-AB	284	71	523	0.543	295	4.3	1.5	18.270	C
C-A	732	183			732				
A-B	401	100			401				
A-C	456	114			456				

## 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	535.98	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 - Dawley Rd (N)		ONE HOUR	✓	1230	100.000
B - Botwell Common Rod		ONE HOUR	✓	616	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1008	100.000

## Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	285	945
	B - Botwell Common Rod	171	0	445
	C - Dawley Rd (S)	774	234	0

## Vehicle Mix

## Heavy Vehicle Percentages

From	To		
	A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
A - Dawley Rd (N)	10	10	10
B - Botwell Common Rod	10	10	10
C - Dawley Rd (S)	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-C	2.40	2458.98	201.8	F	408	613
B-A	2.38	2505.05	78.1	F	157	235
C-AB	0.70	25.03	3.3	D	260	389
C-A					665	998
A-B					262	392
A-C					867	1301

### 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-C	335	84	405	0.828	319	0.0	4.1	40.618	E
B-A	129	32	171	0.753	119	0.0	2.5	67.220	F
C-AB	179	45	468	0.382	176	0.0	0.7	13.449	B
C-A	580	145			580				
A-B	215	54			215				
A-C	711	178			711				

#### 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-C	400	100	296	1.350	291	4.1	31.2	273.897	F
B-A	154	38	117	1.319	111	2.5	13.1	341.818	F
C-AB	225	56	451	0.498	223	0.7	1.1	17.251	C
C-A	681	170			681				
A-B	256	64			256				
A-C	850	212			850				

#### 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-C	490	122	205	2.389	205	31.2	102.5	1144.074	F
B-A	188	47	80	2.344	80	13.1	40.2	1204.836	F
C-AB	375	94	536	0.699	367	1.1	3.0	23.152	C



C-A	735	184			735				
A-B	314	78			314				
A-C	1040	260			1040				

#### 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-C	490	122	204	2.399	204	102.5	173.9	2458.977	F
B-A	188	47	79	2.377	79	40.2	67.5	2505.047	F
C-AB	375	94	536	0.699	374	3.0	3.3	25.035	D
C-A	735	184			735				
A-B	314	78			314				
A-C	1040	260			1040				

#### 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-C	400	100	289	1.385	289	173.9	201.8	2153.457	F
B-A	154	38	112	1.377	112	67.5	78.0	2181.281	F
C-AB	225	56	451	0.498	233	3.3	1.2	18.842	C
C-A	681	170			681				
A-B	256	64			256				
A-C	850	212			850				

#### 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-C	335	84	336	0.997	335	201.8	201.8	2174.769	F
B-A	129	32	130	0.993	128	78.0	78.1	2199.318	F
C-AB	179	45	468	0.382	181	1.2	0.7	13.889	B
C-A	580	145			580				
A-B	215	54			215				
A-C	711	178			711				

## 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	512.37	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 - Dawley Rd (N)		ONE HOUR	✓	1170	100.000
B - Botwell Common Rod		ONE HOUR	✓	414	100.000
C - Dawley Rd (S)		ONE HOUR	✓	1375	100.000

## Origin-Destination Data

### Demand (PCU/hr)

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	0	532	638
	B - Botwell Common Rod	203	0	211
	C - Dawley Rd (S)	1032	343	0

## Vehicle Mix

### Heavy Vehicle Percentages

		To		
		A - Dawley Rd (N)	B - Botwell Common Rod	C - Dawley Rd (S)
From	A - Dawley Rd (N)	10	10	10
	B - Botwell Common Rod	10	10	10
	C - Dawley Rd (S)	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-C	3.23	3440.38	99.0	F	194	290
B-A	3.23	3442.17	95.2	F	186	279
C-AB	0.99	116.08	37.7	F	723	1084
C-A					539	808
A-B					488	732
A-C					585	878

### 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-C	159	40	380	0.418	156	0.0	0.8	17.431	C
B-A	153	38	237	0.645	146	0.0	1.8	40.882	E
C-AB	286	72	521	0.549	280	0.0	1.4	16.150	C
C-A	749	187			749				
A-B	401	100			401				
A-C	480	120			480				

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-C	190	47	162	1.173	149	0.8	11.0	207.334	F
B-A	182	46	159	1.148	148	1.8	10.5	218.931	F
C-AB	448	112	631	0.711	441	1.4	3.2	20.704	C
C-A	788	197			788				
A-B	478	120			478				
A-C	574	143			574				

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-C	232	58	86	2.687	86	11.0	47.5	1242.652	F
B-A	224	56	83	2.691	83	10.5	45.6	1242.899	F
C-AB	1434	358	1453	0.987	1349	3.2	24.4	37.533	E
C-A	80	20			80				
A-B	586	146			586				
A-C	702	176			702				

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-C	232	58	72	3.228	72	47.5	87.6	3440.384	F
B-A	224	56	69	3.229	69	45.6	84.2	3442.171	F
C-AB	1434	358	1453	0.987	1380	24.4	37.7	77.910	F
C-A	80	20			80				
A-B	586	146			586				
A-C	702	176			702				

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-C	190	47	144	1.317	144	87.6	99.0	1916.014	F
B-A	182	46	138	1.318	138	84.2	95.2	1916.723	F
C-AB	448	112	631	0.711	580	37.7	4.8	116.082	F
C-A	788	197			788				
A-B	478	120			478				
A-C	574	143			574				

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
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<b>B-C</b>	159	40	208	0.764	206	99.0	87.4	1633.544	F
<b>B-A</b>	153	38	200	0.764	198	95.2	84.0	1634.434	F
<b>C-AB</b>	286	72	521	0.549	299	4.8	1.6	18.877	C
<b>C-A</b>	749	187			749				
<b>A-B</b>	401	100			401				
<b>A-C</b>	480	120			480				