Junctions 9

PICADY 9 - Priority Intersection Module

Filename: J12 Station Rd- Keith Rd- Nestles Ave Staggered 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: 24/01/2017 09:25:06

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2016							
Stream B-ACD	0.4	10.26	0.27	B	0.3	9.34	0.24	A
Stream A-BCD	0.0	7.72	0.03	A	0.1	7.71	0.05	A
Stream D-ABC	0.2	12.75	0.17	B	0.1	11.66	0.11	B
Stream C-ABD	0.2	8.92	0.13	A	0.1	8.56	0.11	A
	2024 Baseline							
Stream B-ACD	0.6	14.17	0.36	B	0.5	13.01	0.33	B
Stream A-BCD	0.0	8.20	0.04	A	0.1	8.62	0.06	A
Stream D-ABC	0.3	15.90	0.22	C	0.2	15.69	0.16	C
Stream C-ABD	0.2	10.64	0.16	B	0.2	10.12	0.13	B
	2024 Baseline+Dev							
Stream B-ACD	1.3	19.25	0.55	C	1.0	17.15	0.49	C
Stream A-BCD	0.0	8.23	0.04	A	0.1	8.64	0.06	A
Stream D-ABC	0.3	16.45	0.23	C	0.2	16.07	0.16	C
Stream C-ABD	0.3	11.46	0.23	B	0.6	12.29	0.33	B
	2029 Baseline							
Stream B-ACD	0.7	14.80	0.38	B	0.6	13.30	0.34	B
Stream A-BCD	0.0	8.27	0.04	A	0.1	8.66	0.06	A
Stream D-ABC	0.3	16.41	0.23	C	0.2	15.97	0.16	C

Stream C-ABD	0.2	10.77	0.17	B	0.2	10.27	0.14	B
	2029 Baseline+Dev							
Stream B-ACD	1.4	20.14	0.57	C	1.1	17.97	0.51	C
Stream A-BCD	0.0	8.29	0.04	A	0.1	8.70	0.06	A
Stream D-ABC	0.3	16.78	0.24	C	0.2	16.37	0.17	C
Stream C-ABD	0.3	11.59	0.23	B	0.6	12.43	0.33	B

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
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	Right-Left Stagger	Two-way	2.19	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Station Road (N)		Major
B	Nestles Avenue		Minor
C	Station Road (S)		Major
D	Keith Road		Minor

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)
A - Station Road (N)	9.00		✓	2.20	108.0	✓	2.00
C - Station Road (S)	9.00				122.0	✓	3.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Nestles Avenue	One lane	5.00	24	37
D - Keith Road	One lane	2.20	30	39

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
1	A-D	637	-	-	-	0.214	0.214	0.214	-	0.214	-	-
1	B-AD	604	0.096	0.242	-	-	-	0.152	0.346	0.152	0.096	0.242
1	B-C	777	0.104	0.262	-	-	-	-	-	-	0.104	0.262
1	C-B	645	0.217	0.217	-	-	-	-	-	-	0.217	0.217
1	D-A	597	-	-	-	0.201	0.080	0.201	-	0.080	-	-
1	D-BC	466	0.117	0.117	0.266	0.187	0.074	0.187	-	0.074	-	-

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 - Station Road (N)		ONE HOUR	✓	564	100.000
B - Nestles Avenue		ONE HOUR	✓	127	100.000
C - Station Road (S)		ONE HOUR	✓	476	100.000
D - Keith Road		ONE HOUR	✓	59	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	117	432	15
	B - Nestles Avenue	34	0	88	5
	C - Station Road (S)	401	58	0	17
	D - Keith Road	30	19	10	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.27	10.26	0.4	B	117	175
A-BCD	0.03	7.72	0.0	A	14	21
A-B					107	161
A-C					396	595
D-ABC	0.17	12.75	0.2	B	54	81
C-ABD	0.13	8.92	0.2	A	53	80
C-D					16	23
C-A					368	552

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-ACD	96	24	588	0.163	95	0.0	0.2	8.017	A
A-BCD	11	3	563	0.020	11	0.0	0.0	7.175	A
A-B	88	22			88				
A-C	325	81			325				
D-ABC	44	11	424	0.105	44	0.0	0.1	10.395	B
C-ABD	44	11	550	0.079	43	0.0	0.1	7.803	A
C-D	13	3			13				
C-A	302	75			302				

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-ACD	114	29	562	0.203	114	0.2	0.3	8.828	A
A-BCD	13	3	549	0.025	13	0.0	0.0	7.394	A
A-B	105	26			105				
A-C	388	97			388				
D-ABC	53	13	404	0.131	53	0.1	0.2	11.269	B
C-ABD	52	13	532	0.098	52	0.1	0.1	8.243	A
C-D	15	4			15				
C-A	360	90			360				

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-ACD	140	35	526	0.266	139	0.3	0.4	10.230	B
A-BCD	17	4	530	0.031	17	0.0	0.0	7.717	A
A-B	129	32			129				
A-C	476	119			476				
D-ABC	65	16	376	0.173	65	0.2	0.2	12.725	B
C-ABD	64	16	508	0.126	64	0.1	0.2	8.915	A
C-D	19	5			19				
C-A	441	110			441				

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-ACD	140	35	526	0.266	140	0.4	0.4	10.256	B
A-BCD	17	4	530	0.031	17	0.0	0.0	7.718	A
A-B	129	32			129				
A-C	476	119			476				
D-ABC	65	16	376	0.173	65	0.2	0.2	12.746	B
C-ABD	64	16	508	0.126	64	0.2	0.2	8.920	A
C-D	19	5			19				
C-A	441	110			441				

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-ACD	114	29	562	0.203	115	0.4	0.3	8.859	A
A-BCD	13	3	549	0.025	14	0.0	0.0	7.396	A
A-B	105	26			105				
A-C	388	97			388				
D-ABC	53	13	404	0.131	53	0.2	0.2	11.295	B
C-ABD	52	13	532	0.098	52	0.2	0.1	8.254	A
C-D	15	4			15				
C-A	360	90			360				

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-ACD	96	24	588	0.163	96	0.3	0.2	8.055	A
A-BCD	11	3	563	0.020	11	0.0	0.0	7.177	A
A-B	88	22			88				
A-C	325	81			325				
D-ABC	44	11	424	0.105	45	0.2	0.1	10.432	B
C-ABD	44	11	550	0.079	44	0.1	0.1	7.818	A
C-D	13	3			13				
C-A	302	75			302				

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	Right-Left Stagger	Two-way	1.97	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	536	100.000
B - Nestles Avenue		ONE HOUR	✓	122	100.000
C - Station Road (S)		ONE HOUR	✓	434	100.000
D - Keith Road		ONE HOUR	✓	39	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	103	408	25
	B - Nestles Avenue	26	0	92	4
	C - Station Road (S)	369	51	0	14
	D - Keith Road	19	9	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.24	9.34	0.3	A	112	168
A-BCD	0.05	7.71	0.1	A	23	35
A-B					95	142
A-C					374	561
D-ABC	0.11	11.66	0.1	B	36	54
C-ABD	0.11	8.56	0.1	A	47	70
C-D					13	19
C-A					339	508

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-ACD	92	23	613	0.150	91	0.0	0.2	7.576	A
A-BCD	19	5	571	0.033	19	0.0	0.0	7.173	A
A-B	78	19			78				
A-C	307	77			307				
D-ABC	29	7	428	0.069	29	0.0	0.1	9.918	A
C-ABD	38	10	558	0.069	38	0.0	0.1	7.611	A
C-D	11	3			11				
C-A	278	69			278				

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-ACD	110	27	590	0.186	109	0.2	0.2	8.233	A
A-BCD	23	6	558	0.040	22	0.0	0.0	7.391	A
A-B	93	23			93				
A-C	367	92			367				
D-ABC	35	9	409	0.086	35	0.1	0.1	10.584	B
C-ABD	46	11	541	0.085	46	0.1	0.1	7.990	A
C-D	13	3			13				
C-A	332	83			332				

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-ACD	134	34	558	0.241	134	0.2	0.3	9.324	A
A-BCD	28	7	541	0.051	28	0.0	0.1	7.705	A
A-B	113	28			113				
A-C	449	112			449				
D-ABC	43	11	382	0.112	43	0.1	0.1	11.653	B
C-ABD	56	14	519	0.108	56	0.1	0.1	8.561	A
C-D	15	4			15				
C-A	406	102			406				

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-ACD	134	34	558	0.241	134	0.3	0.3	9.341	A
A-BCD	28	7	541	0.051	28	0.1	0.1	7.707	A
A-B	113	28			113				
A-C	449	112			449				
D-ABC	43	11	382	0.112	43	0.1	0.1	11.663	B
C-ABD	56	14	519	0.108	56	0.1	0.1	8.565	A
C-D	15	4			15				
C-A	406	102			406				

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-ACD	110	27	590	0.186	110	0.3	0.3	8.255	A
A-BCD	23	6	558	0.040	23	0.1	0.0	7.396	A
A-B	93	23			93				
A-C	367	92			367				
D-ABC	35	9	409	0.086	35	0.1	0.1	10.597	B
C-ABD	46	11	541	0.085	46	0.1	0.1	7.996	A

C-D	13	3			13				
C-A	332	83			332				

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-ACD	92	23	613	0.150	92	0.3	0.2	7.608	A
A-BCD	19	5	571	0.033	19	0.0	0.0	7.177	A
A-B	78	19			78				
A-C	307	77			307				
D-ABC	29	7	428	0.069	29	0.1	0.1	9.942	A
C-ABD	38	10	558	0.069	38	0.1	0.1	7.623	A
C-D	11	3			11				
C-A	278	69			278				

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	Right-Left Stagger	Two-way	2.34	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
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 - Station Road (N)		ONE HOUR	✓	836	100.000
B - Nestles Avenue		ONE HOUR	✓	142	100.000
C - Station Road (S)		ONE HOUR	✓	608	100.000
D - Keith Road		ONE HOUR	✓	64	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	133	687	16
	B - Nestles Avenue	37	0	100	5
	C - Station Road (S)	524	66	0	18
	D - Keith Road	33	20	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.36	14.17	0.6	B	130	195
A-BCD	0.04	8.20	0.0	A	15	22
A-B					122	183
A-C					630	946
D-ABC	0.22	15.90	0.3	C	59	88
C-ABD	0.16	10.64	0.2	B	61	91
C-D					17	25
C-A					481	721

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-ACD	107	27	530	0.202	106	0.0	0.3	9.312	A
A-BCD	12	3	543	0.022	12	0.0	0.0	7.459	A
A-B	100	25			100				
A-C	517	129			517				
D-ABC	48	12	389	0.124	48	0.0	0.2	11.583	B
C-ABD	50	12	506	0.098	49	0.0	0.1	8.658	A
C-D	14	3			14				
C-A	394	99			394				

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-ACD	128	32	491	0.260	127	0.3	0.4	10.864	B
A-BCD	14	4	525	0.027	14	0.0	0.0	7.756	A
A-B	120	30			120				
A-C	618	154			618				
D-ABC	58	14	360	0.160	57	0.2	0.2	13.059	B
C-ABD	60	15	480	0.124	59	0.1	0.2	9.410	A
C-D	16	4			16				
C-A	471	118			471				

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-ACD	156	39	436	0.359	155	0.4	0.6	14.087	B
A-BCD	18	4	501	0.035	18	0.0	0.0	8.199	A
A-B	146	37			146				
A-C	756	189			756				
D-ABC	70	18	319	0.221	70	0.2	0.3	15.853	C
C-ABD	73	18	445	0.165	73	0.2	0.2	10.631	B
C-D	20	5			20				
C-A	576	144			576				

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-ACD	156	39	436	0.359	156	0.6	0.6	14.174	B
A-BCD	18	4	501	0.035	18	0.0	0.0	8.200	A
A-B	146	37			146				
A-C	756	189			756				
D-ABC	70	18	319	0.221	70	0.3	0.3	15.905	C
C-ABD	73	18	445	0.165	73	0.2	0.2	10.644	B
C-D	20	5			20				
C-A	576	144			576				

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-ACD	128	32	491	0.260	129	0.6	0.4	10.947	B
A-BCD	14	4	525	0.027	14	0.0	0.0	7.760	A
A-B	120	30			120				
A-C	618	154			618				
D-ABC	58	14	360	0.160	58	0.3	0.2	13.114	B
C-ABD	60	15	480	0.124	60	0.2	0.2	9.428	A
C-D	16	4			16				
C-A	471	118			471				

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-ACD	107	27	530	0.202	107	0.4	0.3	9.383	A
A-BCD	12	3	543	0.022	12	0.0	0.0	7.464	A
A-B	100	25			100				

A-C	517	129			517				
D-ABC	48	12	389	0.124	48	0.2	0.2	11.643	B
C-ABD	50	12	506	0.098	50	0.2	0.1	8.684	A
C-D	14	3			14				
C-A	394	99			394				

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	Right-Left Stagger	Two-way	1.94	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	823	100.000
B - Nestles Avenue		ONE HOUR	✓	135	100.000
C - Station Road (S)		ONE HOUR	✓	664	100.000
D - Keith Road		ONE HOUR	✓	43	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	**B - Nestles Avenue**	**C - Station Road (S)**	**D - Keith Road**
From	**A - Station Road (N)**	0	111	684	28
	B - Nestles Avenue	29	0	102	4
	C - Station Road (S)	593	55	0	16
	D - Keith Road	21	10	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.33	13.01	0.5	B	124	186
A-BCD	0.06	8.62	0.1	A	26	39
A-B					102	153
A-C					627	941
D-ABC	0.16	15.69	0.2	C	39	59
C-ABD	0.13	10.12	0.2	B	51	76
C-D					15	22
C-A					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-ACD	102	25	545	0.186	101	0.0	0.2	8.888	A
A-BCD	21	5	535	0.040	21	0.0	0.0	7.708	A
A-B	84	21			84				
A-C	515	129			515				
D-ABC	32	8	374	0.086	32	0.0	0.1	11.544	B
C-ABD	41	10	512	0.081	41	0.0	0.1	8.410	A
C-D	12	3			12				
C-A	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-ACD	121	30	508	0.239	121	0.2	0.3	10.236	B
A-BCD	25	6	516	0.049	25	0.0	0.1	8.075	A
A-B	100	25			100				
A-C	615	154			615				
D-ABC	39	10	344	0.112	39	0.1	0.1	12.968	B
C-ABD	50	12	486	0.102	49	0.1	0.1	9.066	A
C-D	14	4			14				

C-A	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-ACD	149	37	453	0.328	148	0.3	0.5	12.942	B
A-BCD	31	8	491	0.064	31	0.1	0.1	8.615	A
A-B	122	31			122				
A-C	753	188			753				
D-ABC	47	12	300	0.158	47	0.1	0.2	15.660	C
C-ABD	61	15	452	0.135	61	0.1	0.2	10.116	B
C-D	18	4			18				
C-A	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-ACD	149	37	453	0.328	149	0.5	0.5	13.006	B
A-BCD	31	8	491	0.064	31	0.1	0.1	8.618	A
A-B	122	31			122				
A-C	753	188			753				
D-ABC	47	12	300	0.158	47	0.2	0.2	15.694	C
C-ABD	61	15	452	0.135	61	0.2	0.2	10.125	B
C-D	18	4			18				
C-A	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-ACD	121	30	507	0.239	122	0.5	0.4	10.296	B
A-BCD	25	6	516	0.049	25	0.1	0.1	8.080	A
A-B	100	25			100				
A-C	615	154			615				
D-ABC	39	10	344	0.112	39	0.2	0.1	13.006	B
C-ABD	50	12	486	0.102	50	0.2	0.1	9.078	A
C-D	14	4			14				
C-A	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
B-ACD	102	25	545	0.186	102	0.4	0.3	8.946	A
A-BCD	21	5	534	0.040	21	0.1	0.0	7.717	A
A-B	84	21			84				
A-C	515	129			515				
D-ABC	32	8	374	0.086	33	0.1	0.1	11.591	B
C-ABD	41	10	511	0.081	42	0.1	0.1	8.429	A
C-D	12	3			12				
C-A	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	Right-Left Stagger	Two-way	3.77	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
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 - Station Road (N)		ONE HOUR	✓	848	100.000
B - Nestles Avenue		ONE HOUR	✓	230	100.000
C - Station Road (S)		ONE HOUR	✓	633	100.000
D - Keith Road		ONE HOUR	✓	66	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	145	687	16
	B - Nestles Avenue	42	0	182	6
	C - Station Road (S)	524	91	0	18
	D - Keith Road	33	22	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.55	19.25	1.3	C	211	317
A-BCD	0.04	8.23	0.0	A	15	22
A-B					133	200
A-C					630	946
D-ABC	0.23	16.45	0.3	C	61	91
C-ABD	0.23	11.46	0.3	B	85	127
C-D					16	25
C-A					480	720

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-ACD	173	43	551	0.314	171	0.0	0.5	10.362	B
A-BCD	12	3	542	0.022	12	0.0	0.0	7.473	A
A-B	109	27			109				
A-C	517	129			517				
D-ABC	50	12	384	0.129	49	0.0	0.2	11.792	B
C-ABD	69	17	505	0.136	68	0.0	0.2	9.051	A
C-D	14	3			14				
C-A	394	99			394				

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-ACD	207	52	513	0.403	206	0.5	0.7	12.832	B
A-BCD	14	4	524	0.028	14	0.0	0.0	7.774	A
A-B	130	33			130				
A-C	618	154			618				
D-ABC	59	15	355	0.167	59	0.2	0.2	13.375	B
C-ABD	82	21	480	0.172	82	0.2	0.2	9.959	A
C-D	16	4			16				
C-A	470	118			470				

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-ACD	253	63	459	0.552	251	0.7	1.3	18.857	C
A-BCD	18	4	499	0.035	18	0.0	0.0	8.223	A
A-B	160	40			160				
A-C	756	189			756				
D-ABC	73	18	314	0.232	72	0.2	0.3	16.382	C
C-ABD	103	26	448	0.229	102	0.2	0.3	11.427	B
C-D	20	5			20				

C-A	575	144			575				

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-ACD	253	63	458	0.552	253	1.3	1.3	19.252	C
A-BCD	18	4	499	0.035	18	0.0	0.0	8.225	A
A-B	160	40			160				
A-C	756	189			756				
D-ABC	73	18	313	0.232	73	0.3	0.3	16.445	C
C-ABD	103	26	448	0.229	103	0.3	0.3	11.456	B
C-D	20	5			20				
C-A	575	144			575				

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-ACD	207	52	513	0.403	209	1.3	0.8	13.110	B
A-BCD	14	4	524	0.028	14	0.0	0.0	7.777	A
A-B	130	33			130				
A-C	618	154			618				
D-ABC	59	15	355	0.167	60	0.3	0.2	13.428	B
C-ABD	82	21	480	0.172	83	0.3	0.2	9.991	A
C-D	16	4			16				
C-A	470	118			470				

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-ACD	173	43	551	0.314	174	0.8	0.5	10.529	B
A-BCD	12	3	542	0.022	12	0.0	0.0	7.478	A
A-B	109	27			109				
A-C	517	129			517				
D-ABC	50	12	384	0.129	50	0.2	0.2	11.860	B
C-ABD	69	17	505	0.136	69	0.2	0.2	9.089	A
C-D	14	3			14				
C-A	394	99			394				

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	Right-Left Stagger	Two-way	3.36	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
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 - Station Road (N)		ONE HOUR	✓	833	100.000
B - Nestles Avenue		ONE HOUR	✓	203	100.000
C - Station Road (S)		ONE HOUR	✓	741	100.000
D - Keith Road		ONE HOUR	✓	44	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	121	684	28
	B - Nestles Avenue	34	0	164	5
	C - Station Road (S)	593	132	0	16
	D - Keith Road	21	11	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.49	17.15	1.0	C	186	279
A-BCD	0.06	8.64	0.1	A	26	39
A-B					111	167
A-C					627	941

D-ABC	0.16	16.07	0.2	C	40	61
C-ABD	0.33	12.29	0.6	B	126	189
C-D					15	22
C-A					540	809

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-ACD	153	38	552	0.277	151	0.0	0.4	9.839	A
A-BCD	21	5	534	0.040	21	0.0	0.0	7.722	A
A-B	91	23			91				
A-C	515	129			515				
D-ABC	33	8	371	0.089	33	0.0	0.1	11.696	B
C-ABD	100	25	515	0.195	99	0.0	0.3	9.514	A
C-D	12	3			12				
C-A	445	111			445				

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-ACD	182	46	513	0.356	182	0.4	0.6	11.945	B
A-BCD	25	6	515	0.049	25	0.0	0.1	8.094	A
A-B	109	27			109				
A-C	615	154			615				
D-ABC	40	10	340	0.116	39	0.1	0.1	13.179	B
C-ABD	122	30	495	0.246	121	0.3	0.4	10.590	B
C-D	14	4			14				
C-A	530	133			530				

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-ACD	224	56	454	0.492	222	0.6	1.0	16.903	C
A-BCD	31	8	489	0.064	31	0.1	0.1	8.641	A
A-B	133	33			133				
A-C	753	188			753				
D-ABC	48	12	295	0.164	48	0.1	0.2	16.024	C
C-ABD	156	39	478	0.325	155	0.4	0.6	12.233	B
C-D	17	4			17				
C-A	643	161			643				

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-ACD	224	56	454	0.492	223	1.0	1.0	17.152	C
A-BCD	31	8	489	0.064	31	0.1	0.1	8.644	A
A-B	133	33			133				
A-C	753	188			753				

D-ABC	48	12	295	0.164	48	0.2	0.2	16.066	C
C-ABD	156	39	478	0.325	156	0.6	0.6	12.291	B
C-D	17	4			17				
C-A	643	161			643				

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-ACD	182	46	512	0.356	184	1.0	0.6	12.129	B
A-BCD	25	6	514	0.049	25	0.1	0.1	8.100	A
A-B	109	27			109				
A-C	615	154			615				
D-ABC	40	10	340	0.116	40	0.2	0.1	13.221	B
C-ABD	122	30	495	0.246	122	0.6	0.4	10.657	B
C-D	14	4			14				
C-A	530	133			530				

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-ACD	153	38	552	0.277	154	0.6	0.4	9.966	A
A-BCD	21	5	534	0.040	21	0.1	0.0	7.730	A
A-B	91	23			91				
A-C	515	129			515				
D-ABC	33	8	371	0.089	33	0.1	0.1	11.741	B
C-ABD	100	25	515	0.195	101	0.4	0.3	9.582	A
C-D	12	3			12				
C-A	445	111			445				

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	Right-Left Stagger	Two-way	2.43	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
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 - Station Road (N)		ONE HOUR	✓	851	100.000
B - Nestles Avenue		ONE HOUR	✓	146	100.000
C - Station Road (S)		ONE HOUR	✓	621	100.000
D - Keith Road		ONE HOUR	✓	65	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	136	698	17
	B - Nestles Avenue	38	0	102	6
	C - Station Road (S)	535	67	0	19
	D - Keith Road	33	21	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.38	14.80	0.7	B	134	201
A-BCD	0.04	8.27	0.0	A	16	23
A-B					125	187
A-C					640	961
D-ABC	0.23	16.41	0.3	C	60	89
C-ABD	0.17	10.77	0.2	B	62	93
C-D					17	26
C-A					491	736

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-ACD	110	27	525	0.209	109	0.0	0.3	9.489	A
A-BCD	13	3	541	0.024	13	0.0	0.0	7.498	A
A-B	102	26			102				
A-C	525	131			525				
D-ABC	49	12	384	0.127	48	0.0	0.2	11.766	B
C-ABD	51	13	504	0.100	50	0.0	0.1	8.718	A
C-D	14	4			14				
C-A	403	101			403				

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-ACD	131	33	485	0.270	131	0.3	0.4	11.153	B
A-BCD	15	4	522	0.029	15	0.0	0.0	7.809	A
A-B	122	31			122				
A-C	627	157			627				
D-ABC	58	15	355	0.165	58	0.2	0.2	13.334	B
C-ABD	60	15	477	0.127	60	0.1	0.2	9.494	A
C-D	17	4			17				
C-A	481	120			481				

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-ACD	161	40	428	0.375	160	0.4	0.6	14.691	B
A-BCD	19	5	498	0.038	19	0.0	0.0	8.270	A
A-B	150	37			150				
A-C	768	192			768				
D-ABC	72	18	313	0.229	71	0.2	0.3	16.347	C
C-ABD	75	19	442	0.169	74	0.2	0.2	10.755	B
C-D	21	5			21				
C-A	588	147			588				

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-ACD	161	40	428	0.375	161	0.6	0.7	14.798	B
A-BCD	19	5	498	0.038	19	0.0	0.0	8.271	A
A-B	150	37			150				
A-C	768	192			768				
D-ABC	72	18	313	0.229	72	0.3	0.3	16.406	C
C-ABD	75	19	442	0.169	75	0.2	0.2	10.771	B
C-D	21	5			21				
C-A	588	147			588				

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-ACD	131	33	485	0.270	132	0.7	0.4	11.248	B
A-BCD	15	4	522	0.029	15	0.0	0.0	7.812	A
A-B	122	31			122				

A-C	627	157			627				
D-ABC	58	15	355	0.165	59	0.3	0.2	13.396	B
C-ABD	60	15	477	0.127	61	0.2	0.2	9.513	A
C-D	17	4			17				
C-A	481	120			481				

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-ACD	110	27	525	0.209	110	0.4	0.3	9.566	A
A-BCD	13	3	541	0.024	13	0.0	0.0	7.506	A
A-B	102	26			102				
A-C	525	131			525				
D-ABC	49	12	384	0.127	49	0.2	0.2	11.831	B
C-ABD	51	13	504	0.100	51	0.2	0.1	8.743	A
C-D	14	4			14				
C-A	403	101			403				

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	Right-Left Stagger	Two-way	1.97	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	838	100.000
B - Nestles Avenue		ONE HOUR	✓	137	100.000
C - Station Road (S)		ONE HOUR	✓	677	100.000
D - Keith Road		ONE HOUR	✓	43	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	114	696	28
	B - Nestles Avenue	29	0	104	4
	C - Station Road (S)	604	57	0	16
	D - Keith Road	21	10	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.34	13.30	0.6	B	126	189
A-BCD	0.06	8.66	0.1	A	26	39
A-B					105	157
A-C					638	958
D-ABC	0.16	15.97	0.2	C	39	59
C-ABD	0.14	10.27	0.2	B	53	79
C-D					15	22
C-A					554	831

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-ACD	103	26	543	0.190	102	0.0	0.3	8.966	A
A-BCD	21	5	533	0.040	21	0.0	0.0	7.734	A
A-B	86	21			86				
A-C	524	131			524				
D-ABC	32	8	372	0.087	32	0.0	0.1	11.640	B
C-ABD	43	11	509	0.084	43	0.0	0.1	8.480	A
C-D	12	3			12				

C-A	455	114			455				

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-ACD	123	31	504	0.244	123	0.3	0.4	10.367	B
A-BCD	25	6	514	0.049	25	0.0	0.1	8.109	A
A-B	102	26			102				
A-C	626	156			626				
D-ABC	39	10	340	0.114	39	0.1	0.1	13.112	B
C-ABD	51	13	483	0.106	51	0.1	0.1	9.162	A
C-D	14	4			14				
C-A	543	136			543				

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-ACD	151	38	449	0.336	150	0.4	0.5	13.224	B
A-BCD	31	8	488	0.064	31	0.1	0.1	8.661	A
A-B	125	31			125				
A-C	766	191			766				
D-ABC	47	12	295	0.160	47	0.1	0.2	15.931	C
C-ABD	63	16	449	0.141	63	0.1	0.2	10.257	B
C-D	18	4			18				
C-A	665	166			665				

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-ACD	151	38	449	0.336	151	0.5	0.6	13.295	B
A-BCD	31	8	488	0.064	31	0.1	0.1	8.664	A
A-B	125	31			125				
A-C	766	191			766				
D-ABC	47	12	295	0.160	47	0.2	0.2	15.968	C
C-ABD	63	16	449	0.141	63	0.2	0.2	10.268	B
C-D	18	4			18				
C-A	665	166			665				

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-ACD	123	31	504	0.244	124	0.6	0.4	10.432	B
A-BCD	25	6	514	0.049	25	0.1	0.1	8.112	A
A-B	102	26			102				
A-C	626	156			626				
D-ABC	39	10	340	0.114	39	0.2	0.1	13.149	B
C-ABD	51	13	483	0.106	52	0.2	0.1	9.177	A
C-D	14	4			14				
C-A	543	136			543				

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-ACD	103	26	543	0.190	104	0.4	0.3	9.027	A

A-BCD	21	5	533	0.040	21	0.1	0.0	7.743	A
A-B	86	21			86				
A-C	524	131			524				
D-ABC	32	8	372	0.087	33	0.1	0.1	11.684	B
C-ABD	43	11	509	0.084	43	0.1	0.1	8.501	A
C-D	12	3			12				
C-A	455	114			455				

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	Right-Left Stagger	Two-way	3.88	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	863	100.000
B - Nestles Avenue		ONE HOUR	✓	233	100.000
C - Station Road (S)		ONE HOUR	✓	646	100.000
D - Keith Road		ONE HOUR	✓	66	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	**B - Nestles Avenue**	**C - Station Road (S)**	**D - Keith Road**
From	**A - Station Road (N)**	0	148	698	17
	B - Nestles Avenue	43	0	184	6
	C - Station Road (S)	535	92	0	19
	D - Keith Road	33	22	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.57	20.14	1.4	C	214	321
A-BCD	0.04	8.29	0.0	A	16	23
A-B					136	204
A-C					640	961
D-ABC	0.24	16.78	0.3	C	61	91
C-ABD	0.23	11.59	0.3	B	86	128
C-D					17	26
C-A					490	735

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-ACD	175	44	548	0.320	173	0.0	0.5	10.523	B
A-BCD	13	3	540	0.024	13	0.0	0.0	7.509	A
A-B	111	28			111				
A-C	525	131			525				
D-ABC	50	12	381	0.130	49	0.0	0.2	11.899	B
C-ABD	70	17	503	0.138	69	0.0	0.2	9.110	A
C-D	14	4			14				
C-A	403	101			403				

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-ACD	209	52	509	0.412	208	0.5	0.8	13.135	B
A-BCD	15	4	521	0.029	15	0.0	0.0	7.824	A
A-B	133	33			133				
A-C	627	157			627				
D-ABC	59	15	351	0.169	59	0.2	0.2	13.532	B
C-ABD	83	21	477	0.175	83	0.2	0.2	10.046	B
C-D	17	4			17				

C-A	480	120			480				

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-ACD	257	64	453	0.567	254	0.8	1.4	19.678	C
A-BCD	19	5	496	0.038	19	0.0	0.0	8.290	A
A-B	163	41			163				
A-C	768	192			768				
D-ABC	73	18	309	0.235	72	0.2	0.3	16.708	C
C-ABD	104	26	446	0.233	104	0.2	0.3	11.557	B
C-D	21	5			21				
C-A	586	147			586				

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-ACD	257	64	453	0.567	256	1.4	1.4	20.139	C
A-BCD	19	5	496	0.038	19	0.0	0.0	8.292	A
A-B	163	41			163				
A-C	768	192			768				
D-ABC	73	18	309	0.235	73	0.3	0.3	16.777	C
C-ABD	104	26	446	0.233	104	0.3	0.3	11.586	B
C-D	21	5			21				
C-A	586	147			586				

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-ACD	209	52	509	0.412	212	1.4	0.8	13.444	B
A-BCD	15	4	521	0.029	15	0.0	0.0	7.829	A
A-B	133	33			133				
A-C	627	157			627				
D-ABC	59	15	351	0.169	60	0.3	0.2	13.601	B
C-ABD	83	21	477	0.175	84	0.3	0.2	10.079	B
C-D	17	4			17				
C-A	480	120			480				

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-ACD	175	44	548	0.320	176	0.8	0.5	10.703	B
A-BCD	13	3	540	0.024	13	0.0	0.0	7.515	A
A-B	111	28			111				
A-C	525	131			525				
D-ABC	50	12	381	0.130	50	0.2	0.2	11.969	B
C-ABD	70	17	503	0.138	70	0.2	0.2	9.153	A
C-D	14	4			14				
C-A	403	101			403				

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	Right-Left Stagger	Two-way	3.46	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
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 - Station Road (N)		ONE HOUR	✓	848	100.000
B - Nestles Avenue		ONE HOUR	✓	207	100.000
C - Station Road (S)		ONE HOUR	✓	753	100.000
D - Keith Road		ONE HOUR	✓	44	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	124	696	28
	B - Nestles Avenue	35	0	167	5
	C - Station Road (S)	604	133	0	16
	D - Keith Road	21	11	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.51	17.97	1.1	C	190	285
A-BCD	0.06	8.70	0.1	A	26	39
A-B					114	171
A-C					638	958
D-ABC	0.17	16.37	0.2	C	40	61
C-ABD	0.33	12.43	0.6	B	127	191
C-D					15	22
C-A					549	824

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-ACD	156	39	548	0.284	154	0.0	0.4	10.004	B
A-BCD	21	5	532	0.040	21	0.0	0.0	7.751	A
A-B	93	23			93				
A-C	524	131			524				
D-ABC	33	8	368	0.090	33	0.0	0.1	11.796	B
C-ABD	101	25	512	0.198	100	0.0	0.3	9.581	A
C-D	12	3			12				
C-A	454	113			454				

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-ACD	186	47	508	0.366	185	0.4	0.6	12.243	B
A-BCD	25	6	512	0.049	25	0.0	0.1	8.131	A
A-B	111	28			111				
A-C	626	156			626				
D-ABC	40	10	336	0.118	39	0.1	0.1	13.336	B
C-ABD	123	31	493	0.249	122	0.3	0.4	10.684	B
C-D	14	4			14				
C-A	540	135			540				

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-ACD	228	57	448	0.509	226	0.6	1.1	17.673	C
A-BCD	31	8	487	0.064	31	0.1	0.1	8.692	A
A-B	136	34			136				
A-C	766	191			766				
D-ABC	48	12	290	0.167	48	0.1	0.2	16.326	C
C-ABD	157	39	476	0.331	157	0.4	0.6	12.366	B
C-D	17	4			17				

C-A	654	164			654				

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-ACD	228	57	448	0.509	228	1.1	1.1	17.970	C
A-BCD	31	8	487	0.064	31	0.1	0.1	8.697	A
A-B	136	34			136				
A-C	766	191			766				
D-ABC	48	12	290	0.167	48	0.2	0.2	16.370	C
C-ABD	157	39	476	0.331	157	0.6	0.6	12.426	B
C-D	17	4			17				
C-A	654	164			654				

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-ACD	186	47	508	0.367	188	1.1	0.6	12.458	B
A-BCD	25	6	512	0.049	25	0.1	0.1	8.137	A
A-B	111	28			111				
A-C	626	156			626				
D-ABC	40	10	336	0.118	40	0.2	0.1	13.384	B
C-ABD	123	31	493	0.249	123	0.6	0.4	10.756	B
C-D	14	4			14				
C-A	540	135			540				

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-ACD	156	39	548	0.284	157	0.6	0.4	10.139	B
A-BCD	21	5	532	0.040	21	0.1	0.0	7.759	A
A-B	93	23			93				
A-C	524	131			524				
D-ABC	33	8	368	0.090	33	0.1	0.1	11.843	B
C-ABD	101	25	512	0.198	102	0.4	0.3	9.654	A
C-D	12	3			12				
C-A	454	113			454				

Junctions 9

PICADY 9 - Priority Intersection Module

Filename: J12 Station Rd- Keith Rd- Nestles Ave Staggered 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: 24/01/2017 09:25:06

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2016							
Stream B-ACD	0.4	10.26	0.27	B	0.3	9.34	0.24	A
Stream A-BCD	0.0	7.72	0.03	A	0.1	7.71	0.05	A
Stream D-ABC	0.2	12.75	0.17	B	0.1	11.66	0.11	B
Stream C-ABD	0.2	8.92	0.13	A	0.1	8.56	0.11	A
	2024 Baseline							
Stream B-ACD	0.6	14.17	0.36	B	0.5	13.01	0.33	B
Stream A-BCD	0.0	8.20	0.04	A	0.1	8.62	0.06	A
Stream D-ABC	0.3	15.90	0.22	C	0.2	15.69	0.16	C
Stream C-ABD	0.2	10.64	0.16	B	0.2	10.12	0.13	B
	2024 Baseline+Dev							
Stream B-ACD	1.3	19.25	0.55	C	1.0	17.15	0.49	C
Stream A-BCD	0.0	8.23	0.04	A	0.1	8.64	0.06	A
Stream D-ABC	0.3	16.45	0.23	C	0.2	16.07	0.16	C
Stream C-ABD	0.3	11.46	0.23	B	0.6	12.29	0.33	B
	2029 Baseline							
Stream B-ACD	0.7	14.80	0.38	B	0.6	13.30	0.34	B
Stream A-BCD	0.0	8.27	0.04	A	0.1	8.66	0.06	A
Stream D-ABC	0.3	16.41	0.23	C	0.2	15.97	0.16	C

Stream C-ABD	0.2	10.77	0.17	B	0.2	10.27	0.14	B
	2029 Baseline+Dev							
Stream B-ACD	1.4	20.14	0.57	C	1.1	17.97	0.51	C
Stream A-BCD	0.0	8.29	0.04	A	0.1	8.70	0.06	A
Stream D-ABC	0.3	16.78	0.24	C	0.2	16.37	0.17	C
Stream C-ABD	0.3	11.59	0.23	B	0.6	12.43	0.33	B

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
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	Right-Left Stagger	Two-way	2.19	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Station Road (N)		Major
B	Nestles Avenue		Minor
C	Station Road (S)		Major
D	Keith Road		Minor

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)
A - Station Road (N)	9.00		✓	2.20	108.0	✓	2.00
C - Station Road (S)	9.00				122.0	✓	3.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Nestles Avenue	One lane	5.00	24	37
D - Keith Road	One lane	2.20	30	39

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
1	A-D	637	-	-	-	0.214	0.214	0.214	-	0.214	-	-
1	B-AD	604	0.096	0.242	-	-	-	0.152	0.346	0.152	0.096	0.242
1	B-C	777	0.104	0.262	-	-	-	-	-	-	0.104	0.262
1	C-B	645	0.217	0.217	-	-	-	-	-	-	0.217	0.217
1	D-A	597	-	-	-	0.201	0.080	0.201	-	0.080	-	-
1	D-BC	466	0.117	0.117	0.266	0.187	0.074	0.187	-	0.074	-	-

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 - Station Road (N)		ONE HOUR	✓	564	100.000
B - Nestles Avenue		ONE HOUR	✓	127	100.000
C - Station Road (S)		ONE HOUR	✓	476	100.000
D - Keith Road		ONE HOUR	✓	59	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	117	432	15
	B - Nestles Avenue	34	0	88	5
	C - Station Road (S)	401	58	0	17
	D - Keith Road	30	19	10	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.27	10.26	0.4	B	117	175
A-BCD	0.03	7.72	0.0	A	14	21
A-B					107	161
A-C					396	595
D-ABC	0.17	12.75	0.2	B	54	81
C-ABD	0.13	8.92	0.2	A	53	80
C-D					16	23
C-A					368	552

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-ACD	96	24	588	0.163	95	0.0	0.2	8.017	A
A-BCD	11	3	563	0.020	11	0.0	0.0	7.175	A
A-B	88	22			88				
A-C	325	81			325				
D-ABC	44	11	424	0.105	44	0.0	0.1	10.395	B
C-ABD	44	11	550	0.079	43	0.0	0.1	7.803	A
C-D	13	3			13				
C-A	302	75			302				

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-ACD	114	29	562	0.203	114	0.2	0.3	8.828	A
A-BCD	13	3	549	0.025	13	0.0	0.0	7.394	A
A-B	105	26			105				
A-C	388	97			388				
D-ABC	53	13	404	0.131	53	0.1	0.2	11.269	B
C-ABD	52	13	532	0.098	52	0.1	0.1	8.243	A
C-D	15	4			15				
C-A	360	90			360				

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-ACD	140	35	526	0.266	139	0.3	0.4	10.230	B
A-BCD	17	4	530	0.031	17	0.0	0.0	7.717	A
A-B	129	32			129				
A-C	476	119			476				
D-ABC	65	16	376	0.173	65	0.2	0.2	12.725	B
C-ABD	64	16	508	0.126	64	0.1	0.2	8.915	A
C-D	19	5			19				
C-A	441	110			441				

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-ACD	140	35	526	0.266	140	0.4	0.4	10.256	B
A-BCD	17	4	530	0.031	17	0.0	0.0	7.718	A
A-B	129	32			129				
A-C	476	119			476				
D-ABC	65	16	376	0.173	65	0.2	0.2	12.746	B
C-ABD	64	16	508	0.126	64	0.2	0.2	8.920	A
C-D	19	5			19				
C-A	441	110			441				

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-ACD	114	29	562	0.203	115	0.4	0.3	8.859	A
A-BCD	13	3	549	0.025	14	0.0	0.0	7.396	A
A-B	105	26			105				
A-C	388	97			388				
D-ABC	53	13	404	0.131	53	0.2	0.2	11.295	B
C-ABD	52	13	532	0.098	52	0.2	0.1	8.254	A
C-D	15	4			15				
C-A	360	90			360				

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-ACD	96	24	588	0.163	96	0.3	0.2	8.055	A
A-BCD	11	3	563	0.020	11	0.0	0.0	7.177	A
A-B	88	22			88				
A-C	325	81			325				
D-ABC	44	11	424	0.105	45	0.2	0.1	10.432	B
C-ABD	44	11	550	0.079	44	0.1	0.1	7.818	A
C-D	13	3			13				
C-A	302	75			302				

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	Right-Left Stagger	Two-way	1.97	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	536	100.000
B - Nestles Avenue		ONE HOUR	✓	122	100.000
C - Station Road (S)		ONE HOUR	✓	434	100.000
D - Keith Road		ONE HOUR	✓	39	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	103	408	25
	B - Nestles Avenue	26	0	92	4
	C - Station Road (S)	369	51	0	14
	D - Keith Road	19	9	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.24	9.34	0.3	A	112	168
A-BCD	0.05	7.71	0.1	A	23	35
A-B					95	142
A-C					374	561
D-ABC	0.11	11.66	0.1	B	36	54
C-ABD	0.11	8.56	0.1	A	47	70
C-D					13	19
C-A					339	508

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-ACD	92	23	613	0.150	91	0.0	0.2	7.576	A
A-BCD	19	5	571	0.033	19	0.0	0.0	7.173	A
A-B	78	19			78				
A-C	307	77			307				
D-ABC	29	7	428	0.069	29	0.0	0.1	9.918	A
C-ABD	38	10	558	0.069	38	0.0	0.1	7.611	A
C-D	11	3			11				
C-A	278	69			278				

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-ACD	110	27	590	0.186	109	0.2	0.2	8.233	A
A-BCD	23	6	558	0.040	22	0.0	0.0	7.391	A
A-B	93	23			93				
A-C	367	92			367				
D-ABC	35	9	409	0.086	35	0.1	0.1	10.584	B
C-ABD	46	11	541	0.085	46	0.1	0.1	7.990	A
C-D	13	3			13				
C-A	332	83			332				

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-ACD	134	34	558	0.241	134	0.2	0.3	9.324	A
A-BCD	28	7	541	0.051	28	0.0	0.1	7.705	A
A-B	113	28			113				
A-C	449	112			449				
D-ABC	43	11	382	0.112	43	0.1	0.1	11.653	B
C-ABD	56	14	519	0.108	56	0.1	0.1	8.561	A
C-D	15	4			15				
C-A	406	102			406				

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-ACD	134	34	558	0.241	134	0.3	0.3	9.341	A
A-BCD	28	7	541	0.051	28	0.1	0.1	7.707	A
A-B	113	28			113				
A-C	449	112			449				
D-ABC	43	11	382	0.112	43	0.1	0.1	11.663	B
C-ABD	56	14	519	0.108	56	0.1	0.1	8.565	A
C-D	15	4			15				
C-A	406	102			406				

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-ACD	110	27	590	0.186	110	0.3	0.3	8.255	A
A-BCD	23	6	558	0.040	23	0.1	0.0	7.396	A
A-B	93	23			93				
A-C	367	92			367				
D-ABC	35	9	409	0.086	35	0.1	0.1	10.597	B
C-ABD	46	11	541	0.085	46	0.1	0.1	7.996	A

C-D	13	3			13				
C-A	332	83			332				

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-ACD	92	23	613	0.150	92	0.3	0.2	7.608	A
A-BCD	19	5	571	0.033	19	0.0	0.0	7.177	A
A-B	78	19			78				
A-C	307	77			307				
D-ABC	29	7	428	0.069	29	0.1	0.1	9.942	A
C-ABD	38	10	558	0.069	38	0.1	0.1	7.623	A
C-D	11	3			11				
C-A	278	69			278				

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	Right-Left Stagger	Two-way	2.34	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
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 - Station Road (N)		ONE HOUR	✓	836	100.000
B - Nestles Avenue		ONE HOUR	✓	142	100.000
C - Station Road (S)		ONE HOUR	✓	608	100.000
D - Keith Road		ONE HOUR	✓	64	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	133	687	16
	B - Nestles Avenue	37	0	100	5
	C - Station Road (S)	524	66	0	18
	D - Keith Road	33	20	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.36	14.17	0.6	B	130	195
A-BCD	0.04	8.20	0.0	A	15	22
A-B					122	183
A-C					630	946
D-ABC	0.22	15.90	0.3	C	59	88
C-ABD	0.16	10.64	0.2	B	61	91
C-D					17	25
C-A					481	721

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-ACD	107	27	530	0.202	106	0.0	0.3	9.312	A
A-BCD	12	3	543	0.022	12	0.0	0.0	7.459	A
A-B	100	25			100				
A-C	517	129			517				
D-ABC	48	12	389	0.124	48	0.0	0.2	11.583	B
C-ABD	50	12	506	0.098	49	0.0	0.1	8.658	A
C-D	14	3			14				
C-A	394	99			394				

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-ACD	128	32	491	0.260	127	0.3	0.4	10.864	B
A-BCD	14	4	525	0.027	14	0.0	0.0	7.756	A
A-B	120	30			120				
A-C	618	154			618				
D-ABC	58	14	360	0.160	57	0.2	0.2	13.059	B
C-ABD	60	15	480	0.124	59	0.1	0.2	9.410	A
C-D	16	4			16				
C-A	471	118			471				

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-ACD	156	39	436	0.359	155	0.4	0.6	14.087	B
A-BCD	18	4	501	0.035	18	0.0	0.0	8.199	A
A-B	146	37			146				
A-C	756	189			756				
D-ABC	70	18	319	0.221	70	0.2	0.3	15.853	C
C-ABD	73	18	445	0.165	73	0.2	0.2	10.631	B
C-D	20	5			20				
C-A	576	144			576				

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-ACD	156	39	436	0.359	156	0.6	0.6	14.174	B
A-BCD	18	4	501	0.035	18	0.0	0.0	8.200	A
A-B	146	37			146				
A-C	756	189			756				
D-ABC	70	18	319	0.221	70	0.3	0.3	15.905	C
C-ABD	73	18	445	0.165	73	0.2	0.2	10.644	B
C-D	20	5			20				
C-A	576	144			576				

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-ACD	128	32	491	0.260	129	0.6	0.4	10.947	B
A-BCD	14	4	525	0.027	14	0.0	0.0	7.760	A
A-B	120	30			120				
A-C	618	154			618				
D-ABC	58	14	360	0.160	58	0.3	0.2	13.114	B
C-ABD	60	15	480	0.124	60	0.2	0.2	9.428	A
C-D	16	4			16				
C-A	471	118			471				

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-ACD	107	27	530	0.202	107	0.4	0.3	9.383	A
A-BCD	12	3	543	0.022	12	0.0	0.0	7.464	A
A-B	100	25			100				

A-C	517	129			517				
D-ABC	48	12	389	0.124	48	0.2	0.2	11.643	B
C-ABD	50	12	506	0.098	50	0.2	0.1	8.684	A
C-D	14	3			14				
C-A	394	99			394				

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	Right-Left Stagger	Two-way	1.94	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	823	100.000
B - Nestles Avenue		ONE HOUR	✓	135	100.000
C - Station Road (S)		ONE HOUR	✓	664	100.000
D - Keith Road		ONE HOUR	✓	43	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	**B - Nestles Avenue**	**C - Station Road (S)**	**D - Keith Road**
From	**A - Station Road (N)**	0	111	684	28
	B - Nestles Avenue	29	0	102	4
	C - Station Road (S)	593	55	0	16
	D - Keith Road	21	10	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.33	13.01	0.5	B	124	186
A-BCD	0.06	8.62	0.1	A	26	39
A-B					102	153
A-C					627	941
D-ABC	0.16	15.69	0.2	C	39	59
C-ABD	0.13	10.12	0.2	B	51	76
C-D					15	22
C-A					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-ACD	102	25	545	0.186	101	0.0	0.2	8.888	A
A-BCD	21	5	535	0.040	21	0.0	0.0	7.708	A
A-B	84	21			84				
A-C	515	129			515				
D-ABC	32	8	374	0.086	32	0.0	0.1	11.544	B
C-ABD	41	10	512	0.081	41	0.0	0.1	8.410	A
C-D	12	3			12				
C-A	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-ACD	121	30	508	0.239	121	0.2	0.3	10.236	B
A-BCD	25	6	516	0.049	25	0.0	0.1	8.075	A
A-B	100	25			100				
A-C	615	154			615				
D-ABC	39	10	344	0.112	39	0.1	0.1	12.968	B
C-ABD	50	12	486	0.102	49	0.1	0.1	9.066	A
C-D	14	4			14				

C-A	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-ACD	149	37	453	0.328	148	0.3	0.5	12.942	B
A-BCD	31	8	491	0.064	31	0.1	0.1	8.615	A
A-B	122	31			122				
A-C	753	188			753				
D-ABC	47	12	300	0.158	47	0.1	0.2	15.660	C
C-ABD	61	15	452	0.135	61	0.1	0.2	10.116	B
C-D	18	4			18				
C-A	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-ACD	149	37	453	0.328	149	0.5	0.5	13.006	B
A-BCD	31	8	491	0.064	31	0.1	0.1	8.618	A
A-B	122	31			122				
A-C	753	188			753				
D-ABC	47	12	300	0.158	47	0.2	0.2	15.694	C
C-ABD	61	15	452	0.135	61	0.2	0.2	10.125	B
C-D	18	4			18				
C-A	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-ACD	121	30	507	0.239	122	0.5	0.4	10.296	B
A-BCD	25	6	516	0.049	25	0.1	0.1	8.080	A
A-B	100	25			100				
A-C	615	154			615				
D-ABC	39	10	344	0.112	39	0.2	0.1	13.006	B
C-ABD	50	12	486	0.102	50	0.2	0.1	9.078	A
C-D	14	4			14				
C-A	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
B-ACD	102	25	545	0.186	102	0.4	0.3	8.946	A
A-BCD	21	5	534	0.040	21	0.1	0.0	7.717	A
A-B	84	21			84				
A-C	515	129			515				
D-ABC	32	8	374	0.086	33	0.1	0.1	11.591	B
C-ABD	41	10	511	0.081	42	0.1	0.1	8.429	A
C-D	12	3			12				
C-A	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	Right-Left Stagger	Two-way	3.77	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
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 - Station Road (N)		ONE HOUR	✓	848	100.000
B - Nestles Avenue		ONE HOUR	✓	230	100.000
C - Station Road (S)		ONE HOUR	✓	633	100.000
D - Keith Road		ONE HOUR	✓	66	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	145	687	16
	B - Nestles Avenue	42	0	182	6
	C - Station Road (S)	524	91	0	18
	D - Keith Road	33	22	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.55	19.25	1.3	C	211	317
A-BCD	0.04	8.23	0.0	A	15	22
A-B					133	200
A-C					630	946
D-ABC	0.23	16.45	0.3	C	61	91
C-ABD	0.23	11.46	0.3	B	85	127
C-D					16	25
C-A					480	720

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-ACD	173	43	551	0.314	171	0.0	0.5	10.362	B
A-BCD	12	3	542	0.022	12	0.0	0.0	7.473	A
A-B	109	27			109				
A-C	517	129			517				
D-ABC	50	12	384	0.129	49	0.0	0.2	11.792	B
C-ABD	69	17	505	0.136	68	0.0	0.2	9.051	A
C-D	14	3			14				
C-A	394	99			394				

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-ACD	207	52	513	0.403	206	0.5	0.7	12.832	B
A-BCD	14	4	524	0.028	14	0.0	0.0	7.774	A
A-B	130	33			130				
A-C	618	154			618				
D-ABC	59	15	355	0.167	59	0.2	0.2	13.375	B
C-ABD	82	21	480	0.172	82	0.2	0.2	9.959	A
C-D	16	4			16				
C-A	470	118			470				

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-ACD	253	63	459	0.552	251	0.7	1.3	18.857	C
A-BCD	18	4	499	0.035	18	0.0	0.0	8.223	A
A-B	160	40			160				
A-C	756	189			756				
D-ABC	73	18	314	0.232	72	0.2	0.3	16.382	C
C-ABD	103	26	448	0.229	102	0.2	0.3	11.427	B
C-D	20	5			20				

C-A	575	144			575				

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-ACD	253	63	458	0.552	253	1.3	1.3	19.252	C
A-BCD	18	4	499	0.035	18	0.0	0.0	8.225	A
A-B	160	40			160				
A-C	756	189			756				
D-ABC	73	18	313	0.232	73	0.3	0.3	16.445	C
C-ABD	103	26	448	0.229	103	0.3	0.3	11.456	B
C-D	20	5			20				
C-A	575	144			575				

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-ACD	207	52	513	0.403	209	1.3	0.8	13.110	B
A-BCD	14	4	524	0.028	14	0.0	0.0	7.777	A
A-B	130	33			130				
A-C	618	154			618				
D-ABC	59	15	355	0.167	60	0.3	0.2	13.428	B
C-ABD	82	21	480	0.172	83	0.3	0.2	9.991	A
C-D	16	4			16				
C-A	470	118			470				

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-ACD	173	43	551	0.314	174	0.8	0.5	10.529	B
A-BCD	12	3	542	0.022	12	0.0	0.0	7.478	A
A-B	109	27			109				
A-C	517	129			517				
D-ABC	50	12	384	0.129	50	0.2	0.2	11.860	B
C-ABD	69	17	505	0.136	69	0.2	0.2	9.089	A
C-D	14	3			14				
C-A	394	99			394				

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	Right-Left Stagger	Two-way	3.36	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
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 - Station Road (N)		ONE HOUR	✓	833	100.000
B - Nestles Avenue		ONE HOUR	✓	203	100.000
C - Station Road (S)		ONE HOUR	✓	741	100.000
D - Keith Road		ONE HOUR	✓	44	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	121	684	28
	B - Nestles Avenue	34	0	164	5
	C - Station Road (S)	593	132	0	16
	D - Keith Road	21	11	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.49	17.15	1.0	C	186	279
A-BCD	0.06	8.64	0.1	A	26	39
A-B					111	167
A-C					627	941

D-ABC	0.16	16.07	0.2	C	40	61
C-ABD	0.33	12.29	0.6	B	126	189
C-D					15	22
C-A					540	809

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-ACD	153	38	552	0.277	151	0.0	0.4	9.839	A
A-BCD	21	5	534	0.040	21	0.0	0.0	7.722	A
A-B	91	23			91				
A-C	515	129			515				
D-ABC	33	8	371	0.089	33	0.0	0.1	11.696	B
C-ABD	100	25	515	0.195	99	0.0	0.3	9.514	A
C-D	12	3			12				
C-A	445	111			445				

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-ACD	182	46	513	0.356	182	0.4	0.6	11.945	B
A-BCD	25	6	515	0.049	25	0.0	0.1	8.094	A
A-B	109	27			109				
A-C	615	154			615				
D-ABC	40	10	340	0.116	39	0.1	0.1	13.179	B
C-ABD	122	30	495	0.246	121	0.3	0.4	10.590	B
C-D	14	4			14				
C-A	530	133			530				

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-ACD	224	56	454	0.492	222	0.6	1.0	16.903	C
A-BCD	31	8	489	0.064	31	0.1	0.1	8.641	A
A-B	133	33			133				
A-C	753	188			753				
D-ABC	48	12	295	0.164	48	0.1	0.2	16.024	C
C-ABD	156	39	478	0.325	155	0.4	0.6	12.233	B
C-D	17	4			17				
C-A	643	161			643				

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-ACD	224	56	454	0.492	223	1.0	1.0	17.152	C
A-BCD	31	8	489	0.064	31	0.1	0.1	8.644	A
A-B	133	33			133				
A-C	753	188			753				

D-ABC	48	12	295	0.164	48	0.2	0.2	16.066	C
C-ABD	156	39	478	0.325	156	0.6	0.6	12.291	B
C-D	17	4			17				
C-A	643	161			643				

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-ACD	182	46	512	0.356	184	1.0	0.6	12.129	B
A-BCD	25	6	514	0.049	25	0.1	0.1	8.100	A
A-B	109	27			109				
A-C	615	154			615				
D-ABC	40	10	340	0.116	40	0.2	0.1	13.221	B
C-ABD	122	30	495	0.246	122	0.6	0.4	10.657	B
C-D	14	4			14				
C-A	530	133			530				

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-ACD	153	38	552	0.277	154	0.6	0.4	9.966	A
A-BCD	21	5	534	0.040	21	0.1	0.0	7.730	A
A-B	91	23			91				
A-C	515	129			515				
D-ABC	33	8	371	0.089	33	0.1	0.1	11.741	B
C-ABD	100	25	515	0.195	101	0.4	0.3	9.582	A
C-D	12	3			12				
C-A	445	111			445				

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	Right-Left Stagger	Two-way	2.43	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
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 - Station Road (N)		ONE HOUR	✓	851	100.000
B - Nestles Avenue		ONE HOUR	✓	146	100.000
C - Station Road (S)		ONE HOUR	✓	621	100.000
D - Keith Road		ONE HOUR	✓	65	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	136	698	17
	B - Nestles Avenue	38	0	102	6
	C - Station Road (S)	535	67	0	19
	D - Keith Road	33	21	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.38	14.80	0.7	B	134	201
A-BCD	0.04	8.27	0.0	A	16	23
A-B					125	187
A-C					640	961
D-ABC	0.23	16.41	0.3	C	60	89
C-ABD	0.17	10.77	0.2	B	62	93
C-D					17	26
C-A					491	736

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-ACD	110	27	525	0.209	109	0.0	0.3	9.489	A
A-BCD	13	3	541	0.024	13	0.0	0.0	7.498	A
A-B	102	26			102				
A-C	525	131			525				
D-ABC	49	12	384	0.127	48	0.0	0.2	11.766	B
C-ABD	51	13	504	0.100	50	0.0	0.1	8.718	A
C-D	14	4			14				
C-A	403	101			403				

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-ACD	131	33	485	0.270	131	0.3	0.4	11.153	B
A-BCD	15	4	522	0.029	15	0.0	0.0	7.809	A
A-B	122	31			122				
A-C	627	157			627				
D-ABC	58	15	355	0.165	58	0.2	0.2	13.334	B
C-ABD	60	15	477	0.127	60	0.1	0.2	9.494	A
C-D	17	4			17				
C-A	481	120			481				

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-ACD	161	40	428	0.375	160	0.4	0.6	14.691	B
A-BCD	19	5	498	0.038	19	0.0	0.0	8.270	A
A-B	150	37			150				
A-C	768	192			768				
D-ABC	72	18	313	0.229	71	0.2	0.3	16.347	C
C-ABD	75	19	442	0.169	74	0.2	0.2	10.755	B
C-D	21	5			21				
C-A	588	147			588				

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-ACD	161	40	428	0.375	161	0.6	0.7	14.798	B
A-BCD	19	5	498	0.038	19	0.0	0.0	8.271	A
A-B	150	37			150				
A-C	768	192			768				
D-ABC	72	18	313	0.229	72	0.3	0.3	16.406	C
C-ABD	75	19	442	0.169	75	0.2	0.2	10.771	B
C-D	21	5			21				
C-A	588	147			588				

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-ACD	131	33	485	0.270	132	0.7	0.4	11.248	B
A-BCD	15	4	522	0.029	15	0.0	0.0	7.812	A
A-B	122	31			122				

A-C	627	157			627				
D-ABC	58	15	355	0.165	59	0.3	0.2	13.396	B
C-ABD	60	15	477	0.127	61	0.2	0.2	9.513	A
C-D	17	4			17				
C-A	481	120			481				

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-ACD	110	27	525	0.209	110	0.4	0.3	9.566	A
A-BCD	13	3	541	0.024	13	0.0	0.0	7.506	A
A-B	102	26			102				
A-C	525	131			525				
D-ABC	49	12	384	0.127	49	0.2	0.2	11.831	B
C-ABD	51	13	504	0.100	51	0.2	0.1	8.743	A
C-D	14	4			14				
C-A	403	101			403				

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	Right-Left Stagger	Two-way	1.97	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	838	100.000
B - Nestles Avenue		ONE HOUR	✓	137	100.000
C - Station Road (S)		ONE HOUR	✓	677	100.000
D - Keith Road		ONE HOUR	✓	43	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	114	696	28
	B - Nestles Avenue	29	0	104	4
	C - Station Road (S)	604	57	0	16
	D - Keith Road	21	10	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.34	13.30	0.6	B	126	189
A-BCD	0.06	8.66	0.1	A	26	39
A-B					105	157
A-C					638	958
D-ABC	0.16	15.97	0.2	C	39	59
C-ABD	0.14	10.27	0.2	B	53	79
C-D					15	22
C-A					554	831

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-ACD	103	26	543	0.190	102	0.0	0.3	8.966	A
A-BCD	21	5	533	0.040	21	0.0	0.0	7.734	A
A-B	86	21			86				
A-C	524	131			524				
D-ABC	32	8	372	0.087	32	0.0	0.1	11.640	B
C-ABD	43	11	509	0.084	43	0.0	0.1	8.480	A
C-D	12	3			12				

C-A	455	114			455				

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-ACD	123	31	504	0.244	123	0.3	0.4	10.367	B
A-BCD	25	6	514	0.049	25	0.0	0.1	8.109	A
A-B	102	26			102				
A-C	626	156			626				
D-ABC	39	10	340	0.114	39	0.1	0.1	13.112	B
C-ABD	51	13	483	0.106	51	0.1	0.1	9.162	A
C-D	14	4			14				
C-A	543	136			543				

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-ACD	151	38	449	0.336	150	0.4	0.5	13.224	B
A-BCD	31	8	488	0.064	31	0.1	0.1	8.661	A
A-B	125	31			125				
A-C	766	191			766				
D-ABC	47	12	295	0.160	47	0.1	0.2	15.931	C
C-ABD	63	16	449	0.141	63	0.1	0.2	10.257	B
C-D	18	4			18				
C-A	665	166			665				

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-ACD	151	38	449	0.336	151	0.5	0.6	13.295	B
A-BCD	31	8	488	0.064	31	0.1	0.1	8.664	A
A-B	125	31			125				
A-C	766	191			766				
D-ABC	47	12	295	0.160	47	0.2	0.2	15.968	C
C-ABD	63	16	449	0.141	63	0.2	0.2	10.268	B
C-D	18	4			18				
C-A	665	166			665				

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-ACD	123	31	504	0.244	124	0.6	0.4	10.432	B
A-BCD	25	6	514	0.049	25	0.1	0.1	8.112	A
A-B	102	26			102				
A-C	626	156			626				
D-ABC	39	10	340	0.114	39	0.2	0.1	13.149	B
C-ABD	51	13	483	0.106	52	0.2	0.1	9.177	A
C-D	14	4			14				
C-A	543	136			543				

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-ACD	103	26	543	0.190	104	0.4	0.3	9.027	A

A-BCD	21	5	533	0.040	21	0.1	0.0	7.743	A
A-B	86	21			86				
A-C	524	131			524				
D-ABC	32	8	372	0.087	33	0.1	0.1	11.684	B
C-ABD	43	11	509	0.084	43	0.1	0.1	8.501	A
C-D	12	3			12				
C-A	455	114			455				

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	Right-Left Stagger	Two-way	3.88	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	863	100.000
B - Nestles Avenue		ONE HOUR	✓	233	100.000
C - Station Road (S)		ONE HOUR	✓	646	100.000
D - Keith Road		ONE HOUR	✓	66	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	**B - Nestles Avenue**	**C - Station Road (S)**	**D - Keith Road**
From	**A - Station Road (N)**	0	148	698	17
	B - Nestles Avenue	43	0	184	6
	C - Station Road (S)	535	92	0	19
	D - Keith Road	33	22	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.57	20.14	1.4	C	214	321
A-BCD	0.04	8.29	0.0	A	16	23
A-B					136	204
A-C					640	961
D-ABC	0.24	16.78	0.3	C	61	91
C-ABD	0.23	11.59	0.3	B	86	128
C-D					17	26
C-A					490	735

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-ACD	175	44	548	0.320	173	0.0	0.5	10.523	B
A-BCD	13	3	540	0.024	13	0.0	0.0	7.509	A
A-B	111	28			111				
A-C	525	131			525				
D-ABC	50	12	381	0.130	49	0.0	0.2	11.899	B
C-ABD	70	17	503	0.138	69	0.0	0.2	9.110	A
C-D	14	4			14				
C-A	403	101			403				

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-ACD	209	52	509	0.412	208	0.5	0.8	13.135	B
A-BCD	15	4	521	0.029	15	0.0	0.0	7.824	A
A-B	133	33			133				
A-C	627	157			627				
D-ABC	59	15	351	0.169	59	0.2	0.2	13.532	B
C-ABD	83	21	477	0.175	83	0.2	0.2	10.046	B
C-D	17	4			17				

C-A	480	120			480				

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-ACD	257	64	453	0.567	254	0.8	1.4	19.678	C
A-BCD	19	5	496	0.038	19	0.0	0.0	8.290	A
A-B	163	41			163				
A-C	768	192			768				
D-ABC	73	18	309	0.235	72	0.2	0.3	16.708	C
C-ABD	104	26	446	0.233	104	0.2	0.3	11.557	B
C-D	21	5			21				
C-A	586	147			586				

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-ACD	257	64	453	0.567	256	1.4	1.4	20.139	C
A-BCD	19	5	496	0.038	19	0.0	0.0	8.292	A
A-B	163	41			163				
A-C	768	192			768				
D-ABC	73	18	309	0.235	73	0.3	0.3	16.777	C
C-ABD	104	26	446	0.233	104	0.3	0.3	11.586	B
C-D	21	5			21				
C-A	586	147			586				

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-ACD	209	52	509	0.412	212	1.4	0.8	13.444	B
A-BCD	15	4	521	0.029	15	0.0	0.0	7.829	A
A-B	133	33			133				
A-C	627	157			627				
D-ABC	59	15	351	0.169	60	0.3	0.2	13.601	B
C-ABD	83	21	477	0.175	84	0.3	0.2	10.079	B
C-D	17	4			17				
C-A	480	120			480				

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-ACD	175	44	548	0.320	176	0.8	0.5	10.703	B
A-BCD	13	3	540	0.024	13	0.0	0.0	7.515	A
A-B	111	28			111				
A-C	525	131			525				
D-ABC	50	12	381	0.130	50	0.2	0.2	11.969	B
C-ABD	70	17	503	0.138	70	0.2	0.2	9.153	A
C-D	14	4			14				
C-A	403	101			403				

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	Right-Left Stagger	Two-way	3.46	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
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 - Station Road (N)		ONE HOUR	✓	848	100.000
B - Nestles Avenue		ONE HOUR	✓	207	100.000
C - Station Road (S)		ONE HOUR	✓	753	100.000
D - Keith Road		ONE HOUR	✓	44	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	124	696	28
	B - Nestles Avenue	35	0	167	5
	C - Station Road (S)	604	133	0	16
	D - Keith Road	21	11	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.51	17.97	1.1	C	190	285
A-BCD	0.06	8.70	0.1	A	26	39
A-B					114	171
A-C					638	958
D-ABC	0.17	16.37	0.2	C	40	61
C-ABD	0.33	12.43	0.6	B	127	191
C-D					15	22
C-A					549	824

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-ACD	156	39	548	0.284	154	0.0	0.4	10.004	B
A-BCD	21	5	532	0.040	21	0.0	0.0	7.751	A
A-B	93	23			93				
A-C	524	131			524				
D-ABC	33	8	368	0.090	33	0.0	0.1	11.796	B
C-ABD	101	25	512	0.198	100	0.0	0.3	9.581	A
C-D	12	3			12				
C-A	454	113			454				

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-ACD	186	47	508	0.366	185	0.4	0.6	12.243	B
A-BCD	25	6	512	0.049	25	0.0	0.1	8.131	A
A-B	111	28			111				
A-C	626	156			626				
D-ABC	40	10	336	0.118	39	0.1	0.1	13.336	B
C-ABD	123	31	493	0.249	122	0.3	0.4	10.684	B
C-D	14	4			14				
C-A	540	135			540				

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-ACD	228	57	448	0.509	226	0.6	1.1	17.673	C
A-BCD	31	8	487	0.064	31	0.1	0.1	8.692	A
A-B	136	34			136				
A-C	766	191			766				
D-ABC	48	12	290	0.167	48	0.1	0.2	16.326	C
C-ABD	157	39	476	0.331	157	0.4	0.6	12.366	B
C-D	17	4			17				

C-A	654	164			654				

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-ACD	228	57	448	0.509	228	1.1	1.1	17.970	C
A-BCD	31	8	487	0.064	31	0.1	0.1	8.697	A
A-B	136	34			136				
A-C	766	191			766				
D-ABC	48	12	290	0.167	48	0.2	0.2	16.370	C
C-ABD	157	39	476	0.331	157	0.6	0.6	12.426	B
C-D	17	4			17				
C-A	654	164			654				

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-ACD	186	47	508	0.367	188	1.1	0.6	12.458	B
A-BCD	25	6	512	0.049	25	0.1	0.1	8.137	A
A-B	111	28			111				
A-C	626	156			626				
D-ABC	40	10	336	0.118	40	0.2	0.1	13.384	B
C-ABD	123	31	493	0.249	123	0.6	0.4	10.756	B
C-D	14	4			14				
C-A	540	135			540				

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-ACD	156	39	548	0.284	157	0.6	0.4	10.139	B
A-BCD	21	5	532	0.040	21	0.1	0.0	7.759	A
A-B	93	23			93				
A-C	524	131			524				
D-ABC	33	8	368	0.090	33	0.1	0.1	11.843	B
C-ABD	101	25	512	0.198	102	0.4	0.3	9.654	A
C-D	12	3			12				
C-A	454	113			454				

Junctions 9

PICADY 9 - Priority Intersection Module

Filename: J12 Station Rd- Keith Rd- Nestles Ave Staggered 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: 24/01/2017 09:25:06

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2016							
Stream B-ACD	0.4	10.26	0.27	B	0.3	9.34	0.24	A
Stream A-BCD	0.0	7.72	0.03	A	0.1	7.71	0.05	A
Stream D-ABC	0.2	12.75	0.17	B	0.1	11.66	0.11	B
Stream C-ABD	0.2	8.92	0.13	A	0.1	8.56	0.11	A
	2024 Baseline							
Stream B-ACD	0.6	14.17	0.36	B	0.5	13.01	0.33	B
Stream A-BCD	0.0	8.20	0.04	A	0.1	8.62	0.06	A
Stream D-ABC	0.3	15.90	0.22	C	0.2	15.69	0.16	C
Stream C-ABD	0.2	10.64	0.16	B	0.2	10.12	0.13	B
	2024 Baseline+Dev							
Stream B-ACD	1.3	19.25	0.55	C	1.0	17.15	0.49	C
Stream A-BCD	0.0	8.23	0.04	A	0.1	8.64	0.06	A
Stream D-ABC	0.3	16.45	0.23	C	0.2	16.07	0.16	C
Stream C-ABD	0.3	11.46	0.23	B	0.6	12.29	0.33	B
	2029 Baseline							
Stream B-ACD	0.7	14.80	0.38	B	0.6	13.30	0.34	B
Stream A-BCD	0.0	8.27	0.04	A	0.1	8.66	0.06	A
Stream D-ABC	0.3	16.41	0.23	C	0.2	15.97	0.16	C

Stream C-ABD	0.2	10.77	0.17	B	0.2	10.27	0.14	B
	2029 Baseline+Dev							
Stream B-ACD	1.4	20.14	0.57	C	1.1	17.97	0.51	C
Stream A-BCD	0.0	8.29	0.04	A	0.1	8.70	0.06	A
Stream D-ABC	0.3	16.78	0.24	C	0.2	16.37	0.17	C
Stream C-ABD	0.3	11.59	0.23	B	0.6	12.43	0.33	B

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
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	Right-Left Stagger	Two-way	2.19	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Station Road (N)		Major
B	Nestles Avenue		Minor
C	Station Road (S)		Major
D	Keith Road		Minor

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)
A - Station Road (N)	9.00		✓	2.20	108.0	✓	2.00
C - Station Road (S)	9.00				122.0	✓	3.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Nestles Avenue	One lane	5.00	24	37
D - Keith Road	One lane	2.20	30	39

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
1	A-D	637	-	-	-	0.214	0.214	0.214	-	0.214	-	-
1	B-AD	604	0.096	0.242	-	-	-	0.152	0.346	0.152	0.096	0.242
1	B-C	777	0.104	0.262	-	-	-	-	-	-	0.104	0.262
1	C-B	645	0.217	0.217	-	-	-	-	-	-	0.217	0.217
1	D-A	597	-	-	-	0.201	0.080	0.201	-	0.080	-	-
1	D-BC	466	0.117	0.117	0.266	0.187	0.074	0.187	-	0.074	-	-

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 - Station Road (N)		ONE HOUR	✓	564	100.000
B - Nestles Avenue		ONE HOUR	✓	127	100.000
C - Station Road (S)		ONE HOUR	✓	476	100.000
D - Keith Road		ONE HOUR	✓	59	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	117	432	15
	B - Nestles Avenue	34	0	88	5
	C - Station Road (S)	401	58	0	17
	D - Keith Road	30	19	10	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.27	10.26	0.4	B	117	175
A-BCD	0.03	7.72	0.0	A	14	21
A-B					107	161
A-C					396	595
D-ABC	0.17	12.75	0.2	B	54	81
C-ABD	0.13	8.92	0.2	A	53	80
C-D					16	23
C-A					368	552

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-ACD	96	24	588	0.163	95	0.0	0.2	8.017	A
A-BCD	11	3	563	0.020	11	0.0	0.0	7.175	A
A-B	88	22			88				
A-C	325	81			325				
D-ABC	44	11	424	0.105	44	0.0	0.1	10.395	B
C-ABD	44	11	550	0.079	43	0.0	0.1	7.803	A
C-D	13	3			13				
C-A	302	75			302				

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-ACD	114	29	562	0.203	114	0.2	0.3	8.828	A
A-BCD	13	3	549	0.025	13	0.0	0.0	7.394	A
A-B	105	26			105				
A-C	388	97			388				
D-ABC	53	13	404	0.131	53	0.1	0.2	11.269	B
C-ABD	52	13	532	0.098	52	0.1	0.1	8.243	A
C-D	15	4			15				
C-A	360	90			360				

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-ACD	140	35	526	0.266	139	0.3	0.4	10.230	B
A-BCD	17	4	530	0.031	17	0.0	0.0	7.717	A
A-B	129	32			129				
A-C	476	119			476				
D-ABC	65	16	376	0.173	65	0.2	0.2	12.725	B
C-ABD	64	16	508	0.126	64	0.1	0.2	8.915	A
C-D	19	5			19				
C-A	441	110			441				

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-ACD	140	35	526	0.266	140	0.4	0.4	10.256	B
A-BCD	17	4	530	0.031	17	0.0	0.0	7.718	A
A-B	129	32			129				
A-C	476	119			476				
D-ABC	65	16	376	0.173	65	0.2	0.2	12.746	B
C-ABD	64	16	508	0.126	64	0.2	0.2	8.920	A
C-D	19	5			19				
C-A	441	110			441				

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-ACD	114	29	562	0.203	115	0.4	0.3	8.859	A
A-BCD	13	3	549	0.025	14	0.0	0.0	7.396	A
A-B	105	26			105				
A-C	388	97			388				
D-ABC	53	13	404	0.131	53	0.2	0.2	11.295	B
C-ABD	52	13	532	0.098	52	0.2	0.1	8.254	A
C-D	15	4			15				
C-A	360	90			360				

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-ACD	96	24	588	0.163	96	0.3	0.2	8.055	A
A-BCD	11	3	563	0.020	11	0.0	0.0	7.177	A
A-B	88	22			88				
A-C	325	81			325				
D-ABC	44	11	424	0.105	45	0.2	0.1	10.432	B
C-ABD	44	11	550	0.079	44	0.1	0.1	7.818	A
C-D	13	3			13				
C-A	302	75			302				

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	Right-Left Stagger	Two-way	1.97	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	536	100.000
B - Nestles Avenue		ONE HOUR	✓	122	100.000
C - Station Road (S)		ONE HOUR	✓	434	100.000
D - Keith Road		ONE HOUR	✓	39	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	103	408	25
	B - Nestles Avenue	26	0	92	4
	C - Station Road (S)	369	51	0	14
	D - Keith Road	19	9	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.24	9.34	0.3	A	112	168
A-BCD	0.05	7.71	0.1	A	23	35
A-B					95	142
A-C					374	561
D-ABC	0.11	11.66	0.1	B	36	54
C-ABD	0.11	8.56	0.1	A	47	70
C-D					13	19
C-A					339	508

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-ACD	92	23	613	0.150	91	0.0	0.2	7.576	A
A-BCD	19	5	571	0.033	19	0.0	0.0	7.173	A
A-B	78	19			78				
A-C	307	77			307				
D-ABC	29	7	428	0.069	29	0.0	0.1	9.918	A
C-ABD	38	10	558	0.069	38	0.0	0.1	7.611	A
C-D	11	3			11				
C-A	278	69			278				

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-ACD	110	27	590	0.186	109	0.2	0.2	8.233	A
A-BCD	23	6	558	0.040	22	0.0	0.0	7.391	A
A-B	93	23			93				
A-C	367	92			367				
D-ABC	35	9	409	0.086	35	0.1	0.1	10.584	B
C-ABD	46	11	541	0.085	46	0.1	0.1	7.990	A
C-D	13	3			13				
C-A	332	83			332				

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-ACD	134	34	558	0.241	134	0.2	0.3	9.324	A
A-BCD	28	7	541	0.051	28	0.0	0.1	7.705	A
A-B	113	28			113				
A-C	449	112			449				
D-ABC	43	11	382	0.112	43	0.1	0.1	11.653	B
C-ABD	56	14	519	0.108	56	0.1	0.1	8.561	A
C-D	15	4			15				
C-A	406	102			406				

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-ACD	134	34	558	0.241	134	0.3	0.3	9.341	A
A-BCD	28	7	541	0.051	28	0.1	0.1	7.707	A
A-B	113	28			113				
A-C	449	112			449				
D-ABC	43	11	382	0.112	43	0.1	0.1	11.663	B
C-ABD	56	14	519	0.108	56	0.1	0.1	8.565	A
C-D	15	4			15				
C-A	406	102			406				

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-ACD	110	27	590	0.186	110	0.3	0.3	8.255	A
A-BCD	23	6	558	0.040	23	0.1	0.0	7.396	A
A-B	93	23			93				
A-C	367	92			367				
D-ABC	35	9	409	0.086	35	0.1	0.1	10.597	B
C-ABD	46	11	541	0.085	46	0.1	0.1	7.996	A

C-D	13	3			13				
C-A	332	83			332				

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-ACD	92	23	613	0.150	92	0.3	0.2	7.608	A
A-BCD	19	5	571	0.033	19	0.0	0.0	7.177	A
A-B	78	19			78				
A-C	307	77			307				
D-ABC	29	7	428	0.069	29	0.1	0.1	9.942	A
C-ABD	38	10	558	0.069	38	0.1	0.1	7.623	A
C-D	11	3			11				
C-A	278	69			278				

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	Right-Left Stagger	Two-way	2.34	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
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 - Station Road (N)		ONE HOUR	✓	836	100.000
B - Nestles Avenue		ONE HOUR	✓	142	100.000
C - Station Road (S)		ONE HOUR	✓	608	100.000
D - Keith Road		ONE HOUR	✓	64	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	133	687	16
	B - Nestles Avenue	37	0	100	5
	C - Station Road (S)	524	66	0	18
	D - Keith Road	33	20	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.36	14.17	0.6	B	130	195
A-BCD	0.04	8.20	0.0	A	15	22
A-B					122	183
A-C					630	946
D-ABC	0.22	15.90	0.3	C	59	88
C-ABD	0.16	10.64	0.2	B	61	91
C-D					17	25
C-A					481	721

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-ACD	107	27	530	0.202	106	0.0	0.3	9.312	A
A-BCD	12	3	543	0.022	12	0.0	0.0	7.459	A
A-B	100	25			100				
A-C	517	129			517				
D-ABC	48	12	389	0.124	48	0.0	0.2	11.583	B
C-ABD	50	12	506	0.098	49	0.0	0.1	8.658	A
C-D	14	3			14				
C-A	394	99			394				

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-ACD	128	32	491	0.260	127	0.3	0.4	10.864	B
A-BCD	14	4	525	0.027	14	0.0	0.0	7.756	A
A-B	120	30			120				
A-C	618	154			618				
D-ABC	58	14	360	0.160	57	0.2	0.2	13.059	B
C-ABD	60	15	480	0.124	59	0.1	0.2	9.410	A
C-D	16	4			16				
C-A	471	118			471				

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-ACD	156	39	436	0.359	155	0.4	0.6	14.087	B
A-BCD	18	4	501	0.035	18	0.0	0.0	8.199	A
A-B	146	37			146				
A-C	756	189			756				
D-ABC	70	18	319	0.221	70	0.2	0.3	15.853	C
C-ABD	73	18	445	0.165	73	0.2	0.2	10.631	B
C-D	20	5			20				
C-A	576	144			576				

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-ACD	156	39	436	0.359	156	0.6	0.6	14.174	B
A-BCD	18	4	501	0.035	18	0.0	0.0	8.200	A
A-B	146	37			146				
A-C	756	189			756				
D-ABC	70	18	319	0.221	70	0.3	0.3	15.905	C
C-ABD	73	18	445	0.165	73	0.2	0.2	10.644	B
C-D	20	5			20				
C-A	576	144			576				

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-ACD	128	32	491	0.260	129	0.6	0.4	10.947	B
A-BCD	14	4	525	0.027	14	0.0	0.0	7.760	A
A-B	120	30			120				
A-C	618	154			618				
D-ABC	58	14	360	0.160	58	0.3	0.2	13.114	B
C-ABD	60	15	480	0.124	60	0.2	0.2	9.428	A
C-D	16	4			16				
C-A	471	118			471				

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-ACD	107	27	530	0.202	107	0.4	0.3	9.383	A
A-BCD	12	3	543	0.022	12	0.0	0.0	7.464	A
A-B	100	25			100				

A-C	517	129			517				
D-ABC	48	12	389	0.124	48	0.2	0.2	11.643	B
C-ABD	50	12	506	0.098	50	0.2	0.1	8.684	A
C-D	14	3			14				
C-A	394	99			394				

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	Right-Left Stagger	Two-way	1.94	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	823	100.000
B - Nestles Avenue		ONE HOUR	✓	135	100.000
C - Station Road (S)		ONE HOUR	✓	664	100.000
D - Keith Road		ONE HOUR	✓	43	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	**B - Nestles Avenue**	**C - Station Road (S)**	**D - Keith Road**
From	**A - Station Road (N)**	0	111	684	28
	B - Nestles Avenue	29	0	102	4
	C - Station Road (S)	593	55	0	16
	D - Keith Road	21	10	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.33	13.01	0.5	B	124	186
A-BCD	0.06	8.62	0.1	A	26	39
A-B					102	153
A-C					627	941
D-ABC	0.16	15.69	0.2	C	39	59
C-ABD	0.13	10.12	0.2	B	51	76
C-D					15	22
C-A					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-ACD	102	25	545	0.186	101	0.0	0.2	8.888	A
A-BCD	21	5	535	0.040	21	0.0	0.0	7.708	A
A-B	84	21			84				
A-C	515	129			515				
D-ABC	32	8	374	0.086	32	0.0	0.1	11.544	B
C-ABD	41	10	512	0.081	41	0.0	0.1	8.410	A
C-D	12	3			12				
C-A	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-ACD	121	30	508	0.239	121	0.2	0.3	10.236	B
A-BCD	25	6	516	0.049	25	0.0	0.1	8.075	A
A-B	100	25			100				
A-C	615	154			615				
D-ABC	39	10	344	0.112	39	0.1	0.1	12.968	B
C-ABD	50	12	486	0.102	49	0.1	0.1	9.066	A
C-D	14	4			14				

C-A	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-ACD	149	37	453	0.328	148	0.3	0.5	12.942	B
A-BCD	31	8	491	0.064	31	0.1	0.1	8.615	A
A-B	122	31			122				
A-C	753	188			753				
D-ABC	47	12	300	0.158	47	0.1	0.2	15.660	C
C-ABD	61	15	452	0.135	61	0.1	0.2	10.116	B
C-D	18	4			18				
C-A	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-ACD	149	37	453	0.328	149	0.5	0.5	13.006	B
A-BCD	31	8	491	0.064	31	0.1	0.1	8.618	A
A-B	122	31			122				
A-C	753	188			753				
D-ABC	47	12	300	0.158	47	0.2	0.2	15.694	C
C-ABD	61	15	452	0.135	61	0.2	0.2	10.125	B
C-D	18	4			18				
C-A	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-ACD	121	30	507	0.239	122	0.5	0.4	10.296	B
A-BCD	25	6	516	0.049	25	0.1	0.1	8.080	A
A-B	100	25			100				
A-C	615	154			615				
D-ABC	39	10	344	0.112	39	0.2	0.1	13.006	B
C-ABD	50	12	486	0.102	50	0.2	0.1	9.078	A
C-D	14	4			14				
C-A	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
B-ACD	102	25	545	0.186	102	0.4	0.3	8.946	A
A-BCD	21	5	534	0.040	21	0.1	0.0	7.717	A
A-B	84	21			84				
A-C	515	129			515				
D-ABC	32	8	374	0.086	33	0.1	0.1	11.591	B
C-ABD	41	10	511	0.081	42	0.1	0.1	8.429	A
C-D	12	3			12				
C-A	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	Right-Left Stagger	Two-way	3.77	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
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 - Station Road (N)		ONE HOUR	✓	848	100.000
B - Nestles Avenue		ONE HOUR	✓	230	100.000
C - Station Road (S)		ONE HOUR	✓	633	100.000
D - Keith Road		ONE HOUR	✓	66	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	145	687	16
	B - Nestles Avenue	42	0	182	6
	C - Station Road (S)	524	91	0	18
	D - Keith Road	33	22	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.55	19.25	1.3	C	211	317
A-BCD	0.04	8.23	0.0	A	15	22
A-B					133	200
A-C					630	946
D-ABC	0.23	16.45	0.3	C	61	91
C-ABD	0.23	11.46	0.3	B	85	127
C-D					16	25
C-A					480	720

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-ACD	173	43	551	0.314	171	0.0	0.5	10.362	B
A-BCD	12	3	542	0.022	12	0.0	0.0	7.473	A
A-B	109	27			109				
A-C	517	129			517				
D-ABC	50	12	384	0.129	49	0.0	0.2	11.792	B
C-ABD	69	17	505	0.136	68	0.0	0.2	9.051	A
C-D	14	3			14				
C-A	394	99			394				

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-ACD	207	52	513	0.403	206	0.5	0.7	12.832	B
A-BCD	14	4	524	0.028	14	0.0	0.0	7.774	A
A-B	130	33			130				
A-C	618	154			618				
D-ABC	59	15	355	0.167	59	0.2	0.2	13.375	B
C-ABD	82	21	480	0.172	82	0.2	0.2	9.959	A
C-D	16	4			16				
C-A	470	118			470				

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-ACD	253	63	459	0.552	251	0.7	1.3	18.857	C
A-BCD	18	4	499	0.035	18	0.0	0.0	8.223	A
A-B	160	40			160				
A-C	756	189			756				
D-ABC	73	18	314	0.232	72	0.2	0.3	16.382	C
C-ABD	103	26	448	0.229	102	0.2	0.3	11.427	B
C-D	20	5			20				

C-A	575	144			575				

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-ACD	253	63	458	0.552	253	1.3	1.3	19.252	C
A-BCD	18	4	499	0.035	18	0.0	0.0	8.225	A
A-B	160	40			160				
A-C	756	189			756				
D-ABC	73	18	313	0.232	73	0.3	0.3	16.445	C
C-ABD	103	26	448	0.229	103	0.3	0.3	11.456	B
C-D	20	5			20				
C-A	575	144			575				

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-ACD	207	52	513	0.403	209	1.3	0.8	13.110	B
A-BCD	14	4	524	0.028	14	0.0	0.0	7.777	A
A-B	130	33			130				
A-C	618	154			618				
D-ABC	59	15	355	0.167	60	0.3	0.2	13.428	B
C-ABD	82	21	480	0.172	83	0.3	0.2	9.991	A
C-D	16	4			16				
C-A	470	118			470				

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-ACD	173	43	551	0.314	174	0.8	0.5	10.529	B
A-BCD	12	3	542	0.022	12	0.0	0.0	7.478	A
A-B	109	27			109				
A-C	517	129			517				
D-ABC	50	12	384	0.129	50	0.2	0.2	11.860	B
C-ABD	69	17	505	0.136	69	0.2	0.2	9.089	A
C-D	14	3			14				
C-A	394	99			394				

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	Right-Left Stagger	Two-way	3.36	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
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 - Station Road (N)		ONE HOUR	✓	833	100.000
B - Nestles Avenue		ONE HOUR	✓	203	100.000
C - Station Road (S)		ONE HOUR	✓	741	100.000
D - Keith Road		ONE HOUR	✓	44	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	121	684	28
	B - Nestles Avenue	34	0	164	5
	C - Station Road (S)	593	132	0	16
	D - Keith Road	21	11	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.49	17.15	1.0	C	186	279
A-BCD	0.06	8.64	0.1	A	26	39
A-B					111	167
A-C					627	941

D-ABC	0.16	16.07	0.2	C	40	61
C-ABD	0.33	12.29	0.6	B	126	189
C-D					15	22
C-A					540	809

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-ACD	153	38	552	0.277	151	0.0	0.4	9.839	A
A-BCD	21	5	534	0.040	21	0.0	0.0	7.722	A
A-B	91	23			91				
A-C	515	129			515				
D-ABC	33	8	371	0.089	33	0.0	0.1	11.696	B
C-ABD	100	25	515	0.195	99	0.0	0.3	9.514	A
C-D	12	3			12				
C-A	445	111			445				

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-ACD	182	46	513	0.356	182	0.4	0.6	11.945	B
A-BCD	25	6	515	0.049	25	0.0	0.1	8.094	A
A-B	109	27			109				
A-C	615	154			615				
D-ABC	40	10	340	0.116	39	0.1	0.1	13.179	B
C-ABD	122	30	495	0.246	121	0.3	0.4	10.590	B
C-D	14	4			14				
C-A	530	133			530				

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-ACD	224	56	454	0.492	222	0.6	1.0	16.903	C
A-BCD	31	8	489	0.064	31	0.1	0.1	8.641	A
A-B	133	33			133				
A-C	753	188			753				
D-ABC	48	12	295	0.164	48	0.1	0.2	16.024	C
C-ABD	156	39	478	0.325	155	0.4	0.6	12.233	B
C-D	17	4			17				
C-A	643	161			643				

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-ACD	224	56	454	0.492	223	1.0	1.0	17.152	C
A-BCD	31	8	489	0.064	31	0.1	0.1	8.644	A
A-B	133	33			133				
A-C	753	188			753				

D-ABC	48	12	295	0.164	48	0.2	0.2	16.066	C
C-ABD	156	39	478	0.325	156	0.6	0.6	12.291	B
C-D	17	4			17				
C-A	643	161			643				

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-ACD	182	46	512	0.356	184	1.0	0.6	12.129	B
A-BCD	25	6	514	0.049	25	0.1	0.1	8.100	A
A-B	109	27			109				
A-C	615	154			615				
D-ABC	40	10	340	0.116	40	0.2	0.1	13.221	B
C-ABD	122	30	495	0.246	122	0.6	0.4	10.657	B
C-D	14	4			14				
C-A	530	133			530				

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-ACD	153	38	552	0.277	154	0.6	0.4	9.966	A
A-BCD	21	5	534	0.040	21	0.1	0.0	7.730	A
A-B	91	23			91				
A-C	515	129			515				
D-ABC	33	8	371	0.089	33	0.1	0.1	11.741	B
C-ABD	100	25	515	0.195	101	0.4	0.3	9.582	A
C-D	12	3			12				
C-A	445	111			445				

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	Right-Left Stagger	Two-way	2.43	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
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 - Station Road (N)		ONE HOUR	✓	851	100.000
B - Nestles Avenue		ONE HOUR	✓	146	100.000
C - Station Road (S)		ONE HOUR	✓	621	100.000
D - Keith Road		ONE HOUR	✓	65	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	136	698	17
	B - Nestles Avenue	38	0	102	6
	C - Station Road (S)	535	67	0	19
	D - Keith Road	33	21	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.38	14.80	0.7	B	134	201
A-BCD	0.04	8.27	0.0	A	16	23
A-B					125	187
A-C					640	961
D-ABC	0.23	16.41	0.3	C	60	89
C-ABD	0.17	10.77	0.2	B	62	93
C-D					17	26
C-A					491	736

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-ACD	110	27	525	0.209	109	0.0	0.3	9.489	A
A-BCD	13	3	541	0.024	13	0.0	0.0	7.498	A
A-B	102	26			102				
A-C	525	131			525				
D-ABC	49	12	384	0.127	48	0.0	0.2	11.766	B
C-ABD	51	13	504	0.100	50	0.0	0.1	8.718	A
C-D	14	4			14				
C-A	403	101			403				

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-ACD	131	33	485	0.270	131	0.3	0.4	11.153	B
A-BCD	15	4	522	0.029	15	0.0	0.0	7.809	A
A-B	122	31			122				
A-C	627	157			627				
D-ABC	58	15	355	0.165	58	0.2	0.2	13.334	B
C-ABD	60	15	477	0.127	60	0.1	0.2	9.494	A
C-D	17	4			17				
C-A	481	120			481				

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-ACD	161	40	428	0.375	160	0.4	0.6	14.691	B
A-BCD	19	5	498	0.038	19	0.0	0.0	8.270	A
A-B	150	37			150				
A-C	768	192			768				
D-ABC	72	18	313	0.229	71	0.2	0.3	16.347	C
C-ABD	75	19	442	0.169	74	0.2	0.2	10.755	B
C-D	21	5			21				
C-A	588	147			588				

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-ACD	161	40	428	0.375	161	0.6	0.7	14.798	B
A-BCD	19	5	498	0.038	19	0.0	0.0	8.271	A
A-B	150	37			150				
A-C	768	192			768				
D-ABC	72	18	313	0.229	72	0.3	0.3	16.406	C
C-ABD	75	19	442	0.169	75	0.2	0.2	10.771	B
C-D	21	5			21				
C-A	588	147			588				

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-ACD	131	33	485	0.270	132	0.7	0.4	11.248	B
A-BCD	15	4	522	0.029	15	0.0	0.0	7.812	A
A-B	122	31			122				

A-C	627	157			627				
D-ABC	58	15	355	0.165	59	0.3	0.2	13.396	B
C-ABD	60	15	477	0.127	61	0.2	0.2	9.513	A
C-D	17	4			17				
C-A	481	120			481				

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-ACD	110	27	525	0.209	110	0.4	0.3	9.566	A
A-BCD	13	3	541	0.024	13	0.0	0.0	7.506	A
A-B	102	26			102				
A-C	525	131			525				
D-ABC	49	12	384	0.127	49	0.2	0.2	11.831	B
C-ABD	51	13	504	0.100	51	0.2	0.1	8.743	A
C-D	14	4			14				
C-A	403	101			403				

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	Right-Left Stagger	Two-way	1.97	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	838	100.000
B - Nestles Avenue		ONE HOUR	✓	137	100.000
C - Station Road (S)		ONE HOUR	✓	677	100.000
D - Keith Road		ONE HOUR	✓	43	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	114	696	28
	B - Nestles Avenue	29	0	104	4
	C - Station Road (S)	604	57	0	16
	D - Keith Road	21	10	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.34	13.30	0.6	B	126	189
A-BCD	0.06	8.66	0.1	A	26	39
A-B					105	157
A-C					638	958
D-ABC	0.16	15.97	0.2	C	39	59
C-ABD	0.14	10.27	0.2	B	53	79
C-D					15	22
C-A					554	831

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-ACD	103	26	543	0.190	102	0.0	0.3	8.966	A
A-BCD	21	5	533	0.040	21	0.0	0.0	7.734	A
A-B	86	21			86				
A-C	524	131			524				
D-ABC	32	8	372	0.087	32	0.0	0.1	11.640	B
C-ABD	43	11	509	0.084	43	0.0	0.1	8.480	A
C-D	12	3			12				

C-A	455	114			455				

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-ACD	123	31	504	0.244	123	0.3	0.4	10.367	B
A-BCD	25	6	514	0.049	25	0.0	0.1	8.109	A
A-B	102	26			102				
A-C	626	156			626				
D-ABC	39	10	340	0.114	39	0.1	0.1	13.112	B
C-ABD	51	13	483	0.106	51	0.1	0.1	9.162	A
C-D	14	4			14				
C-A	543	136			543				

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-ACD	151	38	449	0.336	150	0.4	0.5	13.224	B
A-BCD	31	8	488	0.064	31	0.1	0.1	8.661	A
A-B	125	31			125				
A-C	766	191			766				
D-ABC	47	12	295	0.160	47	0.1	0.2	15.931	C
C-ABD	63	16	449	0.141	63	0.1	0.2	10.257	B
C-D	18	4			18				
C-A	665	166			665				

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-ACD	151	38	449	0.336	151	0.5	0.6	13.295	B
A-BCD	31	8	488	0.064	31	0.1	0.1	8.664	A
A-B	125	31			125				
A-C	766	191			766				
D-ABC	47	12	295	0.160	47	0.2	0.2	15.968	C
C-ABD	63	16	449	0.141	63	0.2	0.2	10.268	B
C-D	18	4			18				
C-A	665	166			665				

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-ACD	123	31	504	0.244	124	0.6	0.4	10.432	B
A-BCD	25	6	514	0.049	25	0.1	0.1	8.112	A
A-B	102	26			102				
A-C	626	156			626				
D-ABC	39	10	340	0.114	39	0.2	0.1	13.149	B
C-ABD	51	13	483	0.106	52	0.2	0.1	9.177	A
C-D	14	4			14				
C-A	543	136			543				

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-ACD	103	26	543	0.190	104	0.4	0.3	9.027	A

A-BCD	21	5	533	0.040	21	0.1	0.0	7.743	A
A-B	86	21			86				
A-C	524	131			524				
D-ABC	32	8	372	0.087	33	0.1	0.1	11.684	B
C-ABD	43	11	509	0.084	43	0.1	0.1	8.501	A
C-D	12	3			12				
C-A	455	114			455				

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	Right-Left Stagger	Two-way	3.88	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	863	100.000
B - Nestles Avenue		ONE HOUR	✓	233	100.000
C - Station Road (S)		ONE HOUR	✓	646	100.000
D - Keith Road		ONE HOUR	✓	66	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	**B - Nestles Avenue**	**C - Station Road (S)**	**D - Keith Road**
From	**A - Station Road (N)**	0	148	698	17
	B - Nestles Avenue	43	0	184	6
	C - Station Road (S)	535	92	0	19
	D - Keith Road	33	22	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.57	20.14	1.4	C	214	321
A-BCD	0.04	8.29	0.0	A	16	23
A-B					136	204
A-C					640	961
D-ABC	0.24	16.78	0.3	C	61	91
C-ABD	0.23	11.59	0.3	B	86	128
C-D					17	26
C-A					490	735

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-ACD	175	44	548	0.320	173	0.0	0.5	10.523	B
A-BCD	13	3	540	0.024	13	0.0	0.0	7.509	A
A-B	111	28			111				
A-C	525	131			525				
D-ABC	50	12	381	0.130	49	0.0	0.2	11.899	B
C-ABD	70	17	503	0.138	69	0.0	0.2	9.110	A
C-D	14	4			14				
C-A	403	101			403				

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-ACD	209	52	509	0.412	208	0.5	0.8	13.135	B
A-BCD	15	4	521	0.029	15	0.0	0.0	7.824	A
A-B	133	33			133				
A-C	627	157			627				
D-ABC	59	15	351	0.169	59	0.2	0.2	13.532	B
C-ABD	83	21	477	0.175	83	0.2	0.2	10.046	B
C-D	17	4			17				

C-A	480	120			480				

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-ACD	257	64	453	0.567	254	0.8	1.4	19.678	C
A-BCD	19	5	496	0.038	19	0.0	0.0	8.290	A
A-B	163	41			163				
A-C	768	192			768				
D-ABC	73	18	309	0.235	72	0.2	0.3	16.708	C
C-ABD	104	26	446	0.233	104	0.2	0.3	11.557	B
C-D	21	5			21				
C-A	586	147			586				

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-ACD	257	64	453	0.567	256	1.4	1.4	20.139	C
A-BCD	19	5	496	0.038	19	0.0	0.0	8.292	A
A-B	163	41			163				
A-C	768	192			768				
D-ABC	73	18	309	0.235	73	0.3	0.3	16.777	C
C-ABD	104	26	446	0.233	104	0.3	0.3	11.586	B
C-D	21	5			21				
C-A	586	147			586				

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-ACD	209	52	509	0.412	212	1.4	0.8	13.444	B
A-BCD	15	4	521	0.029	15	0.0	0.0	7.829	A
A-B	133	33			133				
A-C	627	157			627				
D-ABC	59	15	351	0.169	60	0.3	0.2	13.601	B
C-ABD	83	21	477	0.175	84	0.3	0.2	10.079	B
C-D	17	4			17				
C-A	480	120			480				

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-ACD	175	44	548	0.320	176	0.8	0.5	10.703	B
A-BCD	13	3	540	0.024	13	0.0	0.0	7.515	A
A-B	111	28			111				
A-C	525	131			525				
D-ABC	50	12	381	0.130	50	0.2	0.2	11.969	B
C-ABD	70	17	503	0.138	70	0.2	0.2	9.153	A
C-D	14	4			14				
C-A	403	101			403				

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	Right-Left Stagger	Two-way	3.46	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
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 - Station Road (N)		ONE HOUR	✓	848	100.000
B - Nestles Avenue		ONE HOUR	✓	207	100.000
C - Station Road (S)		ONE HOUR	✓	753	100.000
D - Keith Road		ONE HOUR	✓	44	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	124	696	28
	B - Nestles Avenue	35	0	167	5
	C - Station Road (S)	604	133	0	16
	D - Keith Road	21	11	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.51	17.97	1.1	C	190	285
A-BCD	0.06	8.70	0.1	A	26	39
A-B					114	171
A-C					638	958
D-ABC	0.17	16.37	0.2	C	40	61
C-ABD	0.33	12.43	0.6	B	127	191
C-D					15	22
C-A					549	824

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-ACD	156	39	548	0.284	154	0.0	0.4	10.004	B
A-BCD	21	5	532	0.040	21	0.0	0.0	7.751	A
A-B	93	23			93				
A-C	524	131			524				
D-ABC	33	8	368	0.090	33	0.0	0.1	11.796	B
C-ABD	101	25	512	0.198	100	0.0	0.3	9.581	A
C-D	12	3			12				
C-A	454	113			454				

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-ACD	186	47	508	0.366	185	0.4	0.6	12.243	B
A-BCD	25	6	512	0.049	25	0.0	0.1	8.131	A
A-B	111	28			111				
A-C	626	156			626				
D-ABC	40	10	336	0.118	39	0.1	0.1	13.336	B
C-ABD	123	31	493	0.249	122	0.3	0.4	10.684	B
C-D	14	4			14				
C-A	540	135			540				

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-ACD	228	57	448	0.509	226	0.6	1.1	17.673	C
A-BCD	31	8	487	0.064	31	0.1	0.1	8.692	A
A-B	136	34			136				
A-C	766	191			766				
D-ABC	48	12	290	0.167	48	0.1	0.2	16.326	C
C-ABD	157	39	476	0.331	157	0.4	0.6	12.366	B
C-D	17	4			17				

C-A	654	164			654				

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-ACD	228	57	448	0.509	228	1.1	1.1	17.970	C
A-BCD	31	8	487	0.064	31	0.1	0.1	8.697	A
A-B	136	34			136				
A-C	766	191			766				
D-ABC	48	12	290	0.167	48	0.2	0.2	16.370	C
C-ABD	157	39	476	0.331	157	0.6	0.6	12.426	B
C-D	17	4			17				
C-A	654	164			654				

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-ACD	186	47	508	0.367	188	1.1	0.6	12.458	B
A-BCD	25	6	512	0.049	25	0.1	0.1	8.137	A
A-B	111	28			111				
A-C	626	156			626				
D-ABC	40	10	336	0.118	40	0.2	0.1	13.384	B
C-ABD	123	31	493	0.249	123	0.6	0.4	10.756	B
C-D	14	4			14				
C-A	540	135			540				

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-ACD	156	39	548	0.284	157	0.6	0.4	10.139	B
A-BCD	21	5	532	0.040	21	0.1	0.0	7.759	A
A-B	93	23			93				
A-C	524	131			524				
D-ABC	33	8	368	0.090	33	0.1	0.1	11.843	B
C-ABD	101	25	512	0.198	102	0.4	0.3	9.654	A
C-D	12	3			12				
C-A	454	113			454				

Junctions 9

PICADY 9 - Priority Intersection Module

Filename: J12 Station Rd- Keith Rd- Nestles Ave Staggered 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 11:04:48

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2024 Baseline							
Stream B-ACD	0.9	15.89	0.46	C	0.7	14.39	0.40	B
Stream A-BCD	0.0	8.20	0.04	A	0.1	8.62	0.06	A
Stream D-ABC	0.3	15.91	0.22	C	0.2	15.70	0.16	C
Stream C-ABD	0.3	11.09	0.20	B	0.4	11.45	0.26	B
	2024 Baseline+Dev							
Stream B-ACD	2.0	23.95	0.65	C	1.4	20.23	0.57	C
Stream A-BCD	0.0	8.23	0.04	A	0.1	8.65	0.06	A
Stream D-ABC	0.3	16.45	0.23	C	0.2	16.07	0.16	C
Stream C-ABD	0.4	11.93	0.27	B	1.0	13.77	0.45	B

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	Right-Left Stagger	Two-way	2.96	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Station Road (N)		Major
B	Nestles Avenue		Minor
C	Station Road (S)		Major
D	Keith Road		Minor

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)
A - Station Road (N)	9.00		✓	2.20	108.0	✓	2.00
C - Station Road (S)	9.00				122.0	✓	3.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Nestles Avenue	One lane	5.00	24	37
D - Keith Road	One lane	2.20	30	39

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
1	A-D	637	-	-	-	0.214	0.214	0.214	-	0.214	-	-
1	B-AD	604	0.096	0.242	-	-	-	0.152	0.346	0.152	0.096	0.242
1	B-C	777	0.104	0.262	-	-	-	-	-	-	0.104	0.262
1	C-B	645	0.217	0.217	-	-	-	-	-	-	0.217	0.217
1	D-A	597	-	-	-	0.201	0.080	0.201	-	0.080	-	-
1	D-BC	466	0.117	0.117	0.266	0.187	0.074	0.187	-	0.074	-	-

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 - Station Road (N)		ONE HOUR	✓	836	100.000
B - Nestles Avenue		ONE HOUR	✓	189	100.000
C - Station Road (S)		ONE HOUR	✓	624	100.000
D - Keith Road		ONE HOUR	✓	64	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	133	687	16
	B - Nestles Avenue	37	0	147	5
	C - Station Road (S)	524	82	0	18
	D - Keith Road	33	20	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.46	15.89	0.9	C	173	260
A-BCD	0.04	8.20	0.0	A	15	22
A-B					122	183
A-C					630	946
D-ABC	0.22	15.91	0.3	C	59	88
C-ABD	0.20	11.09	0.3	B	76	114
C-D					16	25
C-A					480	720

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-ACD	142	36	549	0.259	141	0.0	0.4	9.657	A
A-BCD	12	3	543	0.022	12	0.0	0.0	7.459	A
A-B	100	25			100				
A-C	517	129			517				
D-ABC	48	12	389	0.124	48	0.0	0.2	11.583	B
C-ABD	62	15	507	0.122	61	0.0	0.2	8.877	A
C-D	14	3			14				
C-A	394	99			394				

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-ACD	170	42	512	0.332	169	0.4	0.5	11.543	B
A-BCD	14	4	525	0.027	14	0.0	0.0	7.756	A
A-B	120	30			120				
A-C	618	154			618				
D-ABC	58	14	360	0.160	57	0.2	0.2	13.059	B
C-ABD	74	19	481	0.154	74	0.2	0.2	9.716	A
C-D	16	4			16				
C-A	471	118			471				

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-ACD	208	52	457	0.455	207	0.5	0.9	15.714	C
A-BCD	18	4	501	0.035	18	0.0	0.0	8.200	A
A-B	146	37			146				
A-C	756	189			756				
D-ABC	70	18	319	0.221	70	0.2	0.3	15.854	C
C-ABD	92	23	449	0.205	92	0.2	0.3	11.070	B
C-D	20	5			20				
C-A	575	144			575				

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-ACD	208	52	457	0.455	208	0.9	0.9	15.888	C
A-BCD	18	4	501	0.035	18	0.0	0.0	8.201	A
A-B	146	37			146				
A-C	756	189			756				
D-ABC	70	18	319	0.221	70	0.3	0.3	15.906	C
C-ABD	92	23	449	0.205	92	0.3	0.3	11.091	B
C-D	20	5			20				
C-A	575	144			575				

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-ACD	170	42	512	0.332	171	0.9	0.6	11.688	B
A-BCD	14	4	525	0.027	14	0.0	0.0	7.759	A
A-B	120	30			120				
A-C	618	154			618				
D-ABC	58	14	360	0.160	58	0.3	0.2	13.115	B
C-ABD	74	19	481	0.154	75	0.3	0.2	9.743	A
C-D	16	4			16				
C-A	471	118			471				

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-ACD	142	36	549	0.259	143	0.6	0.4	9.766	A
A-BCD	12	3	543	0.022	12	0.0	0.0	7.464	A
A-B	100	25			100				

A-C	517	129			517				
D-ABC	48	12	389	0.124	48	0.2	0.2	11.643	B
C-ABD	62	15	507	0.122	62	0.2	0.2	8.911	A
C-D	14	3			14				
C-A	394	99			394				

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	Right-Left Stagger	Two-way	2.61	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	823	100.000
B - Nestles Avenue		ONE HOUR	✓	168	100.000
C - Station Road (S)		ONE HOUR	✓	714	100.000
D - Keith Road		ONE HOUR	✓	43	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	**B - Nestles Avenue**	**C - Station Road (S)**	**D - Keith Road**
From	**A - Station Road (N)**	0	111	684	28
	B - Nestles Avenue	29	0	135	4
	C - Station Road (S)	593	105	0	16
	D - Keith Road	21	10	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.40	14.39	0.7	B	154	231
A-BCD	0.06	8.62	0.1	A	26	39
A-B					102	153
A-C					627	941
D-ABC	0.16	15.70	0.2	C	39	59
C-ABD	0.26	11.45	0.4	B	98	147
C-D					15	22
C-A					542	813

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-ACD	126	32	555	0.228	125	0.0	0.3	9.196	A
A-BCD	21	5	535	0.040	21	0.0	0.0	7.708	A
A-B	84	21			84				
A-C	515	129			515				
D-ABC	32	8	374	0.086	32	0.0	0.1	11.544	B
C-ABD	79	20	514	0.155	79	0.0	0.2	9.083	A
C-D	12	3			12				
C-A	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-ACD	151	38	516	0.293	151	0.3	0.4	10.814	B
A-BCD	25	6	516	0.049	25	0.0	0.1	8.075	A
A-B	100	25			100				
A-C	615	154			615				
D-ABC	39	10	344	0.112	39	0.1	0.1	12.968	B
C-ABD	96	24	491	0.195	95	0.2	0.3	9.993	A
C-D	14	4			14				

C-A	532	133			532				

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-ACD	185	46	460	0.402	184	0.4	0.7	14.278	B
A-BCD	31	8	491	0.064	31	0.1	0.1	8.616	A
A-B	122	31			122				
A-C	753	188			753				
D-ABC	47	12	300	0.158	47	0.1	0.2	15.661	C
C-ABD	120	30	466	0.257	119	0.3	0.4	11.418	B
C-D	18	4			18				
C-A	649	162			649				

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-ACD	185	46	460	0.402	185	0.7	0.7	14.391	B
A-BCD	31	8	491	0.064	31	0.1	0.1	8.618	A
A-B	122	31			122				
A-C	753	188			753				
D-ABC	47	12	300	0.158	47	0.2	0.2	15.696	C
C-ABD	120	30	466	0.257	120	0.4	0.4	11.452	B
C-D	18	4			18				
C-A	649	162			649				

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-ACD	151	38	516	0.293	152	0.7	0.5	10.914	B
A-BCD	25	6	516	0.049	25	0.1	0.1	8.080	A
A-B	100	25			100				
A-C	615	154			615				
D-ABC	39	10	344	0.112	39	0.2	0.1	13.004	B
C-ABD	96	24	491	0.195	96	0.4	0.3	10.033	B
C-D	14	4			14				
C-A	532	133			532				

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-ACD	126	32	554	0.228	127	0.5	0.3	9.280	A
A-BCD	21	5	534	0.040	21	0.1	0.0	7.717	A
A-B	84	21			84				
A-C	515	129			515				
D-ABC	32	8	374	0.086	33	0.1	0.1	11.589	B
C-ABD	79	20	514	0.155	80	0.3	0.2	9.129	A
C-D	12	3			12				
C-A	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	Right-Left Stagger	Two-way	4.98	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	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 - Station Road (N)		ONE HOUR	✓	848	100.000
B - Nestles Avenue		ONE HOUR	✓	277	100.000
C - Station Road (S)		ONE HOUR	✓	649	100.000
D - Keith Road		ONE HOUR	✓	66	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	145	687	16
	B - Nestles Avenue	42	0	229	6
	C - Station Road (S)	524	107	0	18
	D - Keith Road	33	22	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.65	23.95	2.0	C	254	381
A-BCD	0.04	8.23	0.0	A	15	22
A-B					133	200
A-C					630	946
D-ABC	0.23	16.45	0.3	C	61	91
C-ABD	0.27	11.93	0.4	B	100	150
C-D					16	25
C-A					479	718

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-ACD	209	52	561	0.372	206	0.0	0.6	11.071	B
A-BCD	12	3	542	0.022	12	0.0	0.0	7.473	A
A-B	109	27			109				
A-C	517	129			517				
D-ABC	50	12	384	0.129	49	0.0	0.2	11.792	B
C-ABD	81	20	506	0.160	80	0.0	0.2	9.283	A
C-D	14	3			14				
C-A	394	99			394				

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-ACD	249	62	524	0.475	248	0.6	1.0	14.273	B
A-BCD	14	4	524	0.028	14	0.0	0.0	7.774	A
A-B	130	33			130				
A-C	618	154			618				
D-ABC	59	15	355	0.167	59	0.2	0.2	13.375	B
C-ABD	97	24	482	0.202	97	0.2	0.3	10.285	B
C-D	16	4			16				
C-A	470	117			470				

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-ACD	305	76	470	0.650	301	1.0	1.9	23.021	C
A-BCD	18	4	499	0.035	18	0.0	0.0	8.224	A
A-B	160	40			160				
A-C	756	189			756				
D-ABC	73	18	314	0.232	72	0.2	0.3	16.383	C
C-ABD	122	31	454	0.269	122	0.3	0.4	11.890	B
C-D	20	5			20				

C-A	573	143			573				

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-ACD	305	76	469	0.650	305	1.9	2.0	23.951	C
A-BCD	18	4	499	0.035	18	0.0	0.0	8.226	A
A-B	160	40			160				
A-C	756	189			756				
D-ABC	73	18	313	0.232	73	0.3	0.3	16.449	C
C-ABD	122	31	454	0.269	122	0.4	0.4	11.930	B
C-D	20	5			20				
C-A	573	143			573				

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-ACD	249	62	524	0.476	253	2.0	1.0	14.816	B
A-BCD	14	4	524	0.028	14	0.0	0.0	7.778	A
A-B	130	33			130				
A-C	618	154			618				
D-ABC	59	15	355	0.167	60	0.3	0.2	13.431	B
C-ABD	97	24	482	0.202	98	0.4	0.3	10.330	B
C-D	16	4			16				
C-A	470	117			470				

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-ACD	209	52	561	0.372	210	1.0	0.7	11.329	B
A-BCD	12	3	542	0.022	12	0.0	0.0	7.479	A
A-B	109	27			109				
A-C	517	129			517				
D-ABC	50	12	384	0.129	50	0.2	0.2	11.859	B
C-ABD	81	20	506	0.160	81	0.3	0.2	9.335	A
C-D	14	3			14				
C-A	394	99			394				

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	Right-Left Stagger	Two-way	4.44	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
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 - Station Road (N)		ONE HOUR	✓	833	100.000
B - Nestles Avenue		ONE HOUR	✓	236	100.000
C - Station Road (S)		ONE HOUR	✓	790	100.000
D - Keith Road		ONE HOUR	✓	44	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	121	684	28
	B - Nestles Avenue	34	0	197	5
	C - Station Road (S)	593	181	0	16
	D - Keith Road	21	11	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.57	20.23	1.4	C	217	325
A-BCD	0.06	8.65	0.1	A	26	39
A-B					111	167
A-C					627	941

D-ABC	0.16	16.07	0.2	C	40	61
C-ABD	0.45	13.77	1.0	B	181	272
C-D					14	21
C-A					529	794

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-ACD	178	44	557	0.319	176	0.0	0.5	10.342	B
A-BCD	21	5	534	0.040	21	0.0	0.0	7.722	A
A-B	91	23			91				
A-C	515	129			515				
D-ABC	33	8	371	0.089	33	0.0	0.1	11.696	B
C-ABD	140	35	522	0.268	138	0.0	0.4	10.277	B
C-D	12	3			12				
C-A	443	111			443				

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-ACD	212	53	516	0.411	211	0.5	0.8	12.944	B
A-BCD	25	6	515	0.049	25	0.0	0.1	8.094	A
A-B	109	27			109				
A-C	615	154			615				
D-ABC	40	10	340	0.116	39	0.1	0.1	13.179	B
C-ABD	172	43	511	0.337	172	0.4	0.6	11.645	B
C-D	14	4			14				
C-A	524	131			524				

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-ACD	260	65	455	0.571	257	0.8	1.4	19.726	C
A-BCD	31	8	489	0.064	31	0.1	0.1	8.641	A
A-B	133	33			133				
A-C	753	188			753				
D-ABC	48	12	295	0.164	48	0.1	0.2	16.026	C
C-ABD	232	58	521	0.446	231	0.6	1.0	13.619	B
C-D	17	4			17				
C-A	621	155			621				

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-ACD	260	65	455	0.571	260	1.4	1.4	20.229	C
A-BCD	31	8	489	0.064	31	0.1	0.1	8.648	A
A-B	133	33			133				
A-C	753	188			753				

D-ABC	48	12	295	0.164	48	0.2	0.2	16.073	C
C-ABD	232	58	521	0.446	232	1.0	1.0	13.770	B
C-D	17	4			17				
C-A	621	155			621				

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-ACD	212	53	516	0.411	215	1.4	0.8	13.264	B
A-BCD	25	6	514	0.049	25	0.1	0.1	8.100	A
A-B	109	27			109				
A-C	615	154			615				
D-ABC	40	10	339	0.117	40	0.2	0.1	13.229	B
C-ABD	172	43	511	0.337	174	1.0	0.6	11.807	B
C-D	14	4			14				
C-A	524	131			524				

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-ACD	178	44	556	0.319	179	0.8	0.5	10.522	B
A-BCD	21	5	533	0.040	21	0.1	0.0	7.732	A
A-B	91	23			91				
A-C	515	129			515				
D-ABC	33	8	371	0.089	33	0.1	0.1	11.740	B
C-ABD	140	35	522	0.268	140	0.6	0.4	10.405	B
C-D	12	3			12				
C-A	443	111			443				

Junctions 9

PICADY 9 - Priority Intersection Module

Filename: J12 Station Rd- Keith Rd- Nestles Ave Staggered 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 16:05:41

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2029 Baseline							
Stream B-ACD	1.0	16.70	0.47	C	0.8	14.75	0.41	B
Stream A-BCD	0.0	8.27	0.04	A	0.1	8.67	0.06	A
Stream D-ABC	0.3	16.41	0.23	C	0.2	15.97	0.16	C
Stream C-ABD	0.3	11.25	0.21	B	0.4	11.58	0.26	B
	2029 Baseline+Dev							
Stream B-ACD	2.1	25.32	0.67	D	1.5	21.44	0.59	C
Stream A-BCD	0.0	8.29	0.04	A	0.1	8.70	0.06	A
Stream D-ABC	0.3	16.78	0.24	C	0.2	16.38	0.17	C
Stream C-ABD	0.4	12.06	0.27	B	1.1	13.94	0.45	B

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	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D4	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D5	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D6	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	Right-Left Stagger	Two-way	3.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Station Road (N)		Major
B	Nestles Avenue		Minor
C	Station Road (S)		Major
D	Keith Road		Minor

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)
A - Station Road (N)	9.00		✓	2.20	108.0	✓	2.00
C - Station Road (S)	9.00				122.0	✓	3.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Nestles Avenue	One lane	5.00	24	37
D - Keith Road	One lane	2.20	30	39

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for A-D	Slope for B-A	Slope for B-D	Slope for C-A	Slope for C-B	Slope for C-D	Slope for D-B	Slope for D-C
1	A-D	637	-	-	-	0.214	0.214	0.214	-	0.214	-	-
1	B-AD	604	0.096	0.242	-	-	-	0.152	0.346	0.152	0.096	0.242
1	B-C	777	0.104	0.262	-	-	-	-	-	-	0.104	0.262
1	C-B	645	0.217	0.217	-	-	-	-	-	-	0.217	0.217
1	D-A	597	-	-	-	0.201	0.080	0.201	-	0.080	-	-
1	D-BC	466	0.117	0.117	0.266	0.187	0.074	0.187	-	0.074	-	-

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	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 - Station Road (N)		ONE HOUR	✓	851	100.000
B - Nestles Avenue		ONE HOUR	✓	193	100.000
C - Station Road (S)		ONE HOUR	✓	638	100.000
D - Keith Road		ONE HOUR	✓	65	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	136	698	17
	B - Nestles Avenue	38	0	149	6
	C - Station Road (S)	535	84	0	19
	D - Keith Road	33	21	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.47	16.70	1.0	C	177	266
A-BCD	0.04	8.27	0.0	A	16	23
A-B					125	187
A-C					640	961
D-ABC	0.23	16.41	0.3	C	60	89
C-ABD	0.21	11.25	0.3	B	78	117
C-D					17	26
C-A					490	735

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-ACD	145	36	544	0.267	144	0.0	0.4	9.851	A
A-BCD	13	3	541	0.024	13	0.0	0.0	7.498	A
A-B	102	26			102				
A-C	525	131			525				
D-ABC	49	12	384	0.127	48	0.0	0.2	11.766	B
C-ABD	63	16	504	0.126	63	0.0	0.2	8.953	A
C-D	14	4			14				
C-A	403	101			403				

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-ACD	174	43	505	0.343	173	0.4	0.6	11.878	B
A-BCD	15	4	522	0.029	15	0.0	0.0	7.809	A
A-B	122	31			122				
A-C	627	157			627				
D-ABC	58	15	355	0.165	58	0.2	0.2	13.334	B
C-ABD	76	19	479	0.159	76	0.2	0.2	9.822	A
C-D	17	4			17				
C-A	480	120			480				

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-ACD	212	53	450	0.473	211	0.6	1.0	16.489	C
A-BCD	19	5	498	0.038	19	0.0	0.0	8.270	A
A-B	150	37			150				
A-C	768	192			768				
D-ABC	72	18	313	0.229	71	0.2	0.3	16.348	C
C-ABD	94	24	446	0.211	94	0.2	0.3	11.233	B
C-D	21	5			21				
C-A	587	147			587				

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-ACD	212	53	449	0.473	212	1.0	1.0	16.699	C
A-BCD	19	5	498	0.038	19	0.0	0.0	8.271	A
A-B	150	37			150				
A-C	768	192			768				
D-ABC	72	18	313	0.229	72	0.3	0.3	16.408	C
C-ABD	94	24	446	0.211	94	0.3	0.3	11.253	B
C-D	21	5			21				
C-A	587	147			587				

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-ACD	174	43	505	0.343	175	1.0	0.6	12.045	B
A-BCD	15	4	522	0.029	15	0.0	0.0	7.812	A
A-B	122	31			122				
A-C	627	157			627				
D-ABC	58	15	355	0.165	59	0.3	0.2	13.394	B
C-ABD	76	19	479	0.159	76	0.3	0.2	9.853	A
C-D	17	4			17				
C-A	480	120			480				

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-ACD	145	36	544	0.267	146	0.6	0.4	9.970	A
A-BCD	13	3	541	0.024	13	0.0	0.0	7.503	A
A-B	102	26			102				

A-C	525	131			525				
D-ABC	49	12	384	0.127	49	0.2	0.2	11.831	B
C-ABD	63	16	504	0.126	64	0.2	0.2	8.988	A
C-D	14	4			14				
C-A	403	101			403				

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	Right-Left Stagger	Two-way	2.64	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	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 - Station Road (N)		ONE HOUR	✓	838	100.000
B - Nestles Avenue		ONE HOUR	✓	170	100.000
C - Station Road (S)		ONE HOUR	✓	726	100.000
D - Keith Road		ONE HOUR	✓	43	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	**B - Nestles Avenue**	**C - Station Road (S)**	**D - Keith Road**
From	**A - Station Road (N)**	0	114	696	28
	B - Nestles Avenue	29	0	137	4
	C - Station Road (S)	604	106	0	16
	D - Keith Road	21	10	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.41	14.75	0.8	B	156	234
A-BCD	0.06	8.67	0.1	A	26	39
A-B					105	157
A-C					638	958
D-ABC	0.16	15.97	0.2	C	39	59
C-ABD	0.26	11.58	0.4	B	99	149
C-D					15	22
C-A					552	828

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-ACD	128	32	552	0.232	127	0.0	0.3	9.282	A
A-BCD	21	5	533	0.040	21	0.0	0.0	7.734	A
A-B	86	21			86				
A-C	524	131			524				
D-ABC	32	8	372	0.087	32	0.0	0.1	11.640	B
C-ABD	80	20	512	0.157	79	0.0	0.2	9.148	A
C-D	12	3			12				
C-A	454	114			454				

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-ACD	153	38	513	0.298	152	0.3	0.5	10.964	B
A-BCD	25	6	514	0.049	25	0.0	0.1	8.109	A
A-B	102	26			102				
A-C	626	156			626				
D-ABC	39	10	340	0.114	39	0.1	0.1	13.112	B
C-ABD	97	24	489	0.198	96	0.2	0.3	10.083	B
C-D	14	4			14				

C-A	542	135			542				

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-ACD	187	47	456	0.411	186	0.5	0.7	14.623	B
A-BCD	31	8	488	0.064	31	0.1	0.1	8.662	A
A-B	125	31			125				
A-C	766	191			766				
D-ABC	47	12	295	0.160	47	0.1	0.2	15.932	C
C-ABD	121	30	463	0.262	121	0.3	0.4	11.550	B
C-D	17	4			17				
C-A	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-ACD	187	47	455	0.411	187	0.7	0.8	14.751	B
A-BCD	31	8	488	0.064	31	0.1	0.1	8.666	A
A-B	125	31			125				
A-C	766	191			766				
D-ABC	47	12	295	0.160	47	0.2	0.2	15.969	C
C-ABD	121	30	463	0.262	121	0.4	0.4	11.582	B
C-D	17	4			17				
C-A	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-ACD	153	38	513	0.298	154	0.8	0.5	11.072	B
A-BCD	25	6	514	0.049	25	0.1	0.1	8.113	A
A-B	102	26			102				
A-C	626	156			626				
D-ABC	39	10	340	0.114	39	0.2	0.1	13.150	B
C-ABD	97	24	489	0.198	97	0.4	0.3	10.125	B
C-D	14	4			14				
C-A	542	135			542				

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-ACD	128	32	552	0.232	129	0.5	0.3	9.368	A
A-BCD	21	5	533	0.040	21	0.1	0.0	7.743	A
A-B	86	21			86				
A-C	524	131			524				
D-ABC	32	8	372	0.087	33	0.1	0.1	11.682	B
C-ABD	80	20	512	0.157	81	0.3	0.2	9.196	A
C-D	12	3			12				
C-A	454	114			454				

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	Right-Left Stagger	Two-way	5.17	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	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 - Station Road (N)		ONE HOUR	✓	863	100.000
B - Nestles Avenue		ONE HOUR	✓	280	100.000
C - Station Road (S)		ONE HOUR	✓	662	100.000
D - Keith Road		ONE HOUR	✓	66	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	148	698	17
	B - Nestles Avenue	43	0	231	6
	C - Station Road (S)	535	108	0	19
	D - Keith Road	33	22	11	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.67	25.32	2.1	D	257	385
A-BCD	0.04	8.29	0.0	A	16	23
A-B					136	204
A-C					640	961
D-ABC	0.24	16.78	0.3	C	61	91
C-ABD	0.27	12.06	0.4	B	101	152
C-D					17	26
C-A					489	733

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-ACD	211	53	558	0.378	208	0.0	0.7	11.254	B
A-BCD	13	3	540	0.024	13	0.0	0.0	7.509	A
A-B	111	28			111				
A-C	525	131			525				
D-ABC	50	12	381	0.130	49	0.0	0.2	11.899	B
C-ABD	82	20	504	0.162	81	0.0	0.2	9.345	A
C-D	14	4			14				
C-A	402	101			402				

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-ACD	252	63	519	0.485	250	0.7	1.0	14.639	B
A-BCD	15	4	521	0.029	15	0.0	0.0	7.824	A
A-B	133	33			133				
A-C	627	157			627				
D-ABC	59	15	351	0.169	59	0.2	0.2	13.532	B
C-ABD	98	25	480	0.205	98	0.2	0.3	10.375	B
C-D	17	4			17				
C-A	480	120			480				

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-ACD	308	77	464	0.665	304	1.0	2.0	24.211	C
A-BCD	19	5	496	0.038	19	0.0	0.0	8.291	A
A-B	163	41			163				
A-C	768	192			768				
D-ABC	73	18	309	0.235	72	0.2	0.3	16.709	C
C-ABD	124	31	452	0.274	123	0.3	0.4	12.023	B
C-D	21	5			21				

C-A	584	146			584				

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-ACD	308	77	464	0.665	308	2.0	2.1	25.323	D
A-BCD	19	5	496	0.038	19	0.0	0.0	8.293	A
A-B	163	41			163				
A-C	768	192			768				
D-ABC	73	18	309	0.235	73	0.3	0.3	16.781	C
C-ABD	124	31	452	0.274	124	0.4	0.4	12.064	B
C-D	21	5			21				
C-A	584	146			584				

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-ACD	252	63	519	0.485	256	2.1	1.1	15.265	C
A-BCD	15	4	521	0.029	15	0.0	0.0	7.830	A
A-B	133	33			133				
A-C	627	157			627				
D-ABC	59	15	351	0.169	60	0.3	0.2	13.606	B
C-ABD	98	25	480	0.205	99	0.4	0.3	10.422	B
C-D	17	4			17				
C-A	480	120			480				

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-ACD	211	53	557	0.378	212	1.1	0.7	11.530	B
A-BCD	13	3	540	0.024	13	0.0	0.0	7.515	A
A-B	111	28			111				
A-C	525	131			525				
D-ABC	50	12	381	0.130	50	0.2	0.2	11.967	B
C-ABD	82	20	504	0.162	82	0.3	0.2	9.398	A
C-D	14	4			14				
C-A	402	101			402				

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	Right-Left Stagger	Two-way	4.61	A

Junction Network Options

Driving side	Lighting

Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	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 - Station Road (N)		ONE HOUR	✓	848	100.000
B - Nestles Avenue		ONE HOUR	✓	240	100.000
C - Station Road (S)		ONE HOUR	✓	803	100.000
D - Keith Road		ONE HOUR	✓	44	100.000

Origin-Destination Data

Demand (PCU/hr)

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	0	124	696	28
	B - Nestles Avenue	35	0	200	5
	C - Station Road (S)	604	183	0	16
	D - Keith Road	21	11	12	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A - Station Road (N)	B - Nestles Avenue	C - Station Road (S)	D - Keith Road
From	A - Station Road (N)	10	10	10	10
	B - Nestles Avenue	10	10	10	10
	C - Station Road (S)	10	10	10	10
	D - Keith Road	10	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-ACD	0.59	21.44	1.5	C	220	330
A-BCD	0.06	8.70	0.1	A	26	39
A-B					114	171
A-C					638	958

D-ABC	0.17	16.38	0.2	C	40	61
C-ABD	0.45	13.94	1.1	B	185	277
C-D					14	21
C-A					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-ACD	181	45	553	0.327	179	0.0	0.5	10.531	B
A-BCD	21	5	532	0.040	21	0.0	0.0	7.751	A
A-B	93	23			93				
A-C	524	131			524				
D-ABC	33	8	368	0.090	33	0.0	0.1	11.796	B
C-ABD	141	35	520	0.272	140	0.0	0.4	10.368	B
C-D	12	3			12				
C-A	451	113			451				

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-ACD	216	54	511	0.422	215	0.5	0.8	13.311	B
A-BCD	25	6	512	0.049	25	0.0	0.1	8.131	A
A-B	111	28			111				
A-C	626	156			626				
D-ABC	40	10	336	0.118	39	0.1	0.1	13.337	B
C-ABD	175	44	510	0.343	174	0.4	0.6	11.770	B
C-D	14	4			14				
C-A	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-ACD	264	66	449	0.589	261	0.8	1.5	20.827	C
A-BCD	31	8	487	0.064	31	0.1	0.1	8.692	A
A-B	136	34			136				
A-C	766	191			766				
D-ABC	48	12	290	0.167	48	0.1	0.2	16.328	C
C-ABD	238	59	523	0.455	236	0.6	1.0	13.781	B
C-D	17	4			17				
C-A	630	157			630				

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-ACD	264	66	448	0.589	264	1.5	1.5	21.442	C
A-BCD	31	8	486	0.064	31	0.1	0.1	8.700	A
A-B	136	34			136				
A-C	766	191			766				

D-ABC	48	12	290	0.167	48	0.2	0.2	16.379	C
C-ABD	238	59	523	0.455	238	1.0	1.1	13.942	B
C-D	17	4			17				
C-A	630	157			630				

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-ACD	216	54	511	0.422	219	1.5	0.8	13.683	B
A-BCD	25	6	512	0.049	25	0.1	0.1	8.139	A
A-B	111	28			111				
A-C	626	156			626				
D-ABC	40	10	336	0.118	40	0.2	0.1	13.390	B
C-ABD	175	44	510	0.343	177	1.1	0.6	11.945	B
C-D	14	4			14				
C-A	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
B-ACD	181	45	552	0.327	182	0.8	0.5	10.726	B
A-BCD	21	5	532	0.040	21	0.1	0.0	7.759	A
A-B	93	23			93				
A-C	524	131			524				
D-ABC	33	8	368	0.090	33	0.1	0.1	11.841	B
C-ABD	141	35	520	0.272	142	0.6	0.4	10.502	B
C-D	12	3			12				
C-A	451	113			451				