Junctions 9

PICADY 9 - Priority Intersection Module

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Filename: J10 Nestles Av- Harold Av Priority Junction.j9
Path: C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios
Report generation date: 23/01/2017 18:16:10

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2016							
Stream B-AC	0.2	6.67	0.16	A	0.1	6.27	0.11	A
Stream C-AB	0.3	6.51	0.23	A	0.2	6.14	0.19	A
	2024 Baseline							
Stream B-AC	0.2	6.76	0.17	A	0.1	6.37	0.12	A
Stream C-AB	0.3	6.68	0.25	A	0.3	6.26	0.21	A
	2024 Baseline+Dev							
Stream B-AC	0.2	6.76	0.17	A	0.1	6.37	0.12	A
Stream C-AB	0.3	6.68	0.25	A	0.3	6.26	0.21	A
	2029 Baseline							
Stream B-AC	0.2	6.85	0.18	A	0.1	6.39	0.13	A
Stream C-AB	0.4	6.74	0.26	A	0.3	6.31	0.21	A
	2029 Baseline+Dev							
Stream B-AC	0.2	6.85	0.18	A	0.1	6.39	0.13	A
Stream C-AB	0.4	6.74	0.26	A	0.3	6.31	0.21	A

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.37	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Nestles Avenue (E)		Major
B	Harold Avenue		Minor
C	Nestles Avenue (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Nestles Avenue (W)	7.40			250.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Harold Avenue	One lane	3.80	17	16

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	530	0.091	0.229	0.144	0.328
1	B-C	685	0.099	0.249	-	-
1	C-B	719	0.262	0.262	-	-

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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	39	100.000

B - Harold Avenue		ONE HOUR	✓	94	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	168	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	**B - Harold Avenue**	**C - Nestles Avenue (W)**
From	**A - Nestles Avenue (E)**	0	17	22
	B - Harold Avenue	11	0	83
	C - Nestles Avenue (W)	20	148	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	**B - Harold Avenue**	**C - Nestles Avenue (W)**
From	**A - Nestles Avenue (E)**	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.16	6.67	0.2	A	86	129
C-AB	0.23	6.51	0.3	A	139	209
C-A					15	22
A-B					16	23
A-C					20	30

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	71	18	649	0.109	70	0.0	0.1	6.212	A
C-AB	114	28	720	0.158	113	0.0	0.2	5.922	A
C-A	13	3			13				
A-B	13	3			13				
A-C	17	4			17				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	85	21	647	0.131	84	0.1	0.1	6.400	A
C-AB	136	34	720	0.189	136	0.2	0.2	6.161	A
C-A	15	4			15				
A-B	15	4			15				
A-C	20	5			20				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	103	26	643	0.161	103	0.1	0.2	6.670	A
C-AB	168	42	721	0.233	168	0.2	0.3	6.506	A
C-A	17	4			17				
A-B	19	5			19				
A-C	24	6			24				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	103	26	643	0.161	103	0.2	0.2	6.673	A
C-AB	168	42	721	0.233	168	0.3	0.3	6.512	A
C-A	17	4			17				
A-B	19	5			19				
A-C	24	6			24				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	85	21	647	0.131	85	0.2	0.2	6.407	A
C-AB	136	34	720	0.189	137	0.3	0.2	6.172	A
C-A	15	4			15				
A-B	15	4			15				
A-C	20	5			20				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	71	18	649	0.109	71	0.2	0.1	6.227	A
C-AB	114	28	720	0.158	114	0.2	0.2	5.940	A
C-A	13	3			13				
A-B	13	3			13				
A-C	17	4			17				

2016, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	25	100.000
B - Harold Avenue		ONE HOUR	✓	66	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	142	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	12	13
	B - Harold Avenue	8	0	58
	C - Nestles Avenue (W)	20	122	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.11	6.27	0.1	A	61	91
C-AB	0.19	6.14	0.2	A	115	172
C-A					15	23
A-B					11	17
A-C					12	18

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	50	12	652	0.076	49	0.0	0.1	5.974	A
C-AB	94	23	723	0.130	93	0.0	0.2	5.712	A
C-A	13	3			13				
A-B	9	2			9				
A-C	10	2			10				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	59	15	650	0.091	59	0.1	0.1	6.097	A
C-AB	112	28	724	0.155	112	0.2	0.2	5.886	A
C-A	15	4			15				
A-B	11	3			11				
A-C	12	3			12				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	73	18	647	0.112	73	0.1	0.1	6.268	A
C-AB	139	35	725	0.191	138	0.2	0.2	6.136	A
C-A	18	4			18				
A-B	13	3			13				
A-C	14	4			14				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	73	18	647	0.112	73	0.1	0.1	6.268	A
C-AB	139	35	725	0.191	139	0.2	0.2	6.142	A
C-A	18	4			18				
A-B	13	3			13				
A-C	14	4			14				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS

B-AC	59	15	650	0.091	59	0.1	0.1	6.099	A
C-AB	112	28	724	0.155	113	0.2	0.2	5.895	A
C-A	15	4			15				
A-B	11	3			11				
A-C	12	3			12				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	50	12	652	0.076	50	0.1	0.1	5.983	A
C-AB	94	23	723	0.130	94	0.2	0.2	5.724	A
C-A	13	3			13				
A-B	9	2			9				
A-C	10	2			10				

2024 Baseline, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.49	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	42	100.000
B - Harold Avenue		ONE HOUR	✓	101	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	182	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	24
	B - Harold Avenue	11	0	90
	C - Nestles Avenue (W)	22	160	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.17	6.76	0.2	A	93	139
C-AB	0.25	6.68	0.3	A	151	227
C-A					16	24
A-B					17	25
A-C					22	33

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.0	0.1	6.258	A
C-AB	123	31	720	0.171	122	0.0	0.2	6.013	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.1	0.2	6.464	A
C-AB	148	37	721	0.205	148	0.2	0.3	6.280	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	5			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	644	0.173	111	0.2	0.2	6.759	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.672	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	643	0.173	111	0.2	0.2	6.762	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.680	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.2	0.2	6.471	A
C-AB	148	37	721	0.205	148	0.3	0.3	6.290	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	5			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.2	0.1	6.274	A
C-AB	123	31	721	0.171	124	0.3	0.2	6.034	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

2024 Baseline , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.19	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	72	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	63
	C - Nestles Avenue (W)	21	132	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.12	6.37	0.1	A	66	99
C-AB	0.21	6.26	0.3	A	125	187
C-A					16	24
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.0	0.1	6.034	A
C-AB	102	25	723	0.141	101	0.0	0.2	5.781	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.173	A
C-AB	122	30	724	0.168	122	0.2	0.2	5.977	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.364	A
C-AB	150	38	725	0.207	150	0.2	0.3	6.259	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.366	A
C-AB	150	38	725	0.207	150	0.3	0.3	6.262	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.176	A
C-AB	122	30	724	0.168	122	0.3	0.2	5.984	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.1	0.1	6.046	A
C-AB	102	25	723	0.141	102	0.2	0.2	5.798	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

2024 Baseline+Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.49	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	42	100.000
B - Harold Avenue		ONE HOUR	✓	101	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	182	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	24
	B - Harold Avenue	11	0	90
	C - Nestles Avenue (W)	22	160	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.17	6.76	0.2	A	93	139
C-AB	0.25	6.68	0.3	A	151	227
C-A					16	24
A-B					17	25
A-C					22	33

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.0	0.1	6.258	A
C-AB	123	31	720	0.171	122	0.0	0.2	6.013	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.1	0.2	6.464	A
C-AB	148	37	721	0.205	148	0.2	0.3	6.280	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	5			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	644	0.173	111	0.2	0.2	6.759	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.672	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	643	0.173	111	0.2	0.2	6.762	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.680	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.2	0.2	6.471	A
C-AB	148	37	721	0.205	148	0.3	0.3	6.290	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	5			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.2	0.1	6.274	A
C-AB	123	31	721	0.171	124	0.3	0.2	6.034	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

2024 Baseline+Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.19	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	72	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	63
	C - Nestles Avenue (W)	21	132	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.12	6.37	0.1	A	66	99
C-AB	0.21	6.26	0.3	A	125	187
C-A					16	24
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.0	0.1	6.034	A
C-AB	102	25	723	0.141	101	0.0	0.2	5.781	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.173	A
C-AB	122	30	724	0.168	122	0.2	0.2	5.977	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.364	A
C-AB	150	38	725	0.207	150	0.2	0.3	6.259	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.366	A
C-AB	150	38	725	0.207	150	0.3	0.3	6.262	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.176	A
C-AB	122	30	724	0.168	122	0.3	0.2	5.984	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.1	0.1	6.046	A
C-AB	102	25	723	0.141	102	0.2	0.2	5.798	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

2029 Baseline, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.56	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	43	100.000
B - Harold Avenue		ONE HOUR	✓	105	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	186	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	25
	B - Harold Avenue	12	0	93
	C - Nestles Avenue (W)	22	164	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.18	6.85	0.2	A	96	145
C-AB	0.26	6.74	0.4	A	155	232
C-A					16	24
A-B					17	25
A-C					23	34

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	649	0.122	78	0.0	0.1	6.311	A
C-AB	126	32	720	0.175	126	0.0	0.2	6.044	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	646	0.146	94	0.1	0.2	6.528	A
C-AB	152	38	721	0.210	151	0.2	0.3	6.323	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	6			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	115	0.2	0.2	6.843	A
C-AB	187	47	721	0.259	187	0.3	0.4	6.732	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	116	0.2	0.2	6.846	A
C-AB	187	47	721	0.259	187	0.4	0.4	6.741	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	645	0.146	95	0.2	0.2	6.536	A
C-AB	152	38	721	0.210	152	0.4	0.3	6.333	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	6			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	648	0.122	79	0.2	0.1	6.324	A
C-AB	126	32	720	0.175	127	0.3	0.2	6.068	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

2029 Baseline , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.23	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	74	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	158	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	65
	C - Nestles Avenue (W)	22	136	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.13	6.39	0.1	A	68	102
C-AB	0.21	6.31	0.3	A	128	193
C-A					16	25
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	55	0.0	0.1	6.044	A
C-AB	105	26	723	0.145	104	0.0	0.2	5.807	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	66	0.1	0.1	6.187	A
C-AB	126	31	724	0.174	126	0.2	0.2	6.010	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.382	A
C-AB	155	39	726	0.214	155	0.2	0.3	6.302	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.385	A
C-AB	155	39	726	0.214	155	0.3	0.3	6.307	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	67	0.1	0.1	6.192	A
C-AB	126	31	724	0.174	126	0.3	0.2	6.018	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	56	0.1	0.1	6.053	A
C-AB	105	26	723	0.145	105	0.2	0.2	5.824	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

2029 Baseline+Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.56	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	43	100.000
B - Harold Avenue		ONE HOUR	✓	105	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	186	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	25
	B - Harold Avenue	12	0	93
	C - Nestles Avenue (W)	22	164	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.18	6.85	0.2	A	96	145
C-AB	0.26	6.74	0.4	A	155	232
C-A					16	24
A-B					17	25
A-C					23	34

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	649	0.122	78	0.0	0.1	6.311	A
C-AB	126	32	720	0.175	126	0.0	0.2	6.044	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	646	0.146	94	0.1	0.2	6.528	A
C-AB	152	38	721	0.210	151	0.2	0.3	6.323	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	6			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	115	0.2	0.2	6.843	A
C-AB	187	47	721	0.259	187	0.3	0.4	6.732	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	116	0.2	0.2	6.846	A
C-AB	187	47	721	0.259	187	0.4	0.4	6.741	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	645	0.146	95	0.2	0.2	6.536	A
C-AB	152	38	721	0.210	152	0.4	0.3	6.333	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	6			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	648	0.122	79	0.2	0.1	6.324	A
C-AB	126	32	720	0.175	127	0.3	0.2	6.068	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

2029 Baseline+Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.23	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	74	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	158	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	65
	C - Nestles Avenue (W)	22	136	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.13	6.39	0.1	A	68	102
C-AB	0.21	6.31	0.3	A	128	193
C-A					16	25
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	55	0.0	0.1	6.044	A
C-AB	105	26	723	0.145	104	0.0	0.2	5.807	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	66	0.1	0.1	6.187	A
C-AB	126	31	724	0.174	126	0.2	0.2	6.010	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.382	A
C-AB	155	39	726	0.214	155	0.2	0.3	6.302	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.385	A
C-AB	155	39	726	0.214	155	0.3	0.3	6.307	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	67	0.1	0.1	6.192	A
C-AB	126	31	724	0.174	126	0.3	0.2	6.018	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	56	0.1	0.1	6.053	A
C-AB	105	26	723	0.145	105	0.2	0.2	5.824	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []
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Filename: J10 Nestles Av- Harold Av Priority Junction.j9
Path: C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios
Report generation date: 23/01/2017 18:16:10

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2016							
Stream B-AC	0.2	6.67	0.16	A	0.1	6.27	0.11	A
Stream C-AB	0.3	6.51	0.23	A	0.2	6.14	0.19	A
	2024 Baseline							
Stream B-AC	0.2	6.76	0.17	A	0.1	6.37	0.12	A
Stream C-AB	0.3	6.68	0.25	A	0.3	6.26	0.21	A
	2024 Baseline+Dev							
Stream B-AC	0.2	6.76	0.17	A	0.1	6.37	0.12	A
Stream C-AB	0.3	6.68	0.25	A	0.3	6.26	0.21	A
	2029 Baseline							
Stream B-AC	0.2	6.85	0.18	A	0.1	6.39	0.13	A
Stream C-AB	0.4	6.74	0.26	A	0.3	6.31	0.21	A
	2029 Baseline+Dev							
Stream B-AC	0.2	6.85	0.18	A	0.1	6.39	0.13	A
Stream C-AB	0.4	6.74	0.26	A	0.3	6.31	0.21	A

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.37	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Nestles Avenue (E)		Major
B	Harold Avenue		Minor
C	Nestles Avenue (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Nestles Avenue (W)	7.40			250.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Harold Avenue	One lane	3.80	17	16

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	530	0.091	0.229	0.144	0.328
1	B-C	685	0.099	0.249	-	-
1	C-B	719	0.262	0.262	-	-

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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	39	100.000

B - Harold Avenue		ONE HOUR	✓	94	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	168	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	**B - Harold Avenue**	**C - Nestles Avenue (W)**
From	**A - Nestles Avenue (E)**	0	17	22
	B - Harold Avenue	11	0	83
	C - Nestles Avenue (W)	20	148	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	**B - Harold Avenue**	**C - Nestles Avenue (W)**
From	**A - Nestles Avenue (E)**	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.16	6.67	0.2	A	86	129
C-AB	0.23	6.51	0.3	A	139	209
C-A					15	22
A-B					16	23
A-C					20	30

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	71	18	649	0.109	70	0.0	0.1	6.212	A
C-AB	114	28	720	0.158	113	0.0	0.2	5.922	A
C-A	13	3			13				
A-B	13	3			13				
A-C	17	4			17				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	85	21	647	0.131	84	0.1	0.1	6.400	A
C-AB	136	34	720	0.189	136	0.2	0.2	6.161	A
C-A	15	4			15				
A-B	15	4			15				
A-C	20	5			20				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	103	26	643	0.161	103	0.1	0.2	6.670	A
C-AB	168	42	721	0.233	168	0.2	0.3	6.506	A
C-A	17	4			17				
A-B	19	5			19				
A-C	24	6			24				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	103	26	643	0.161	103	0.2	0.2	6.673	A
C-AB	168	42	721	0.233	168	0.3	0.3	6.512	A
C-A	17	4			17				
A-B	19	5			19				
A-C	24	6			24				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	85	21	647	0.131	85	0.2	0.2	6.407	A
C-AB	136	34	720	0.189	137	0.3	0.2	6.172	A
C-A	15	4			15				
A-B	15	4			15				
A-C	20	5			20				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	71	18	649	0.109	71	0.2	0.1	6.227	A
C-AB	114	28	720	0.158	114	0.2	0.2	5.940	A
C-A	13	3			13				
A-B	13	3			13				
A-C	17	4			17				

2016, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	25	100.000
B - Harold Avenue		ONE HOUR	✓	66	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	142	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	12	13
	B - Harold Avenue	8	0	58
	C - Nestles Avenue (W)	20	122	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.11	6.27	0.1	A	61	91
C-AB	0.19	6.14	0.2	A	115	172
C-A					15	23
A-B					11	17
A-C					12	18

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	50	12	652	0.076	49	0.0	0.1	5.974	A
C-AB	94	23	723	0.130	93	0.0	0.2	5.712	A
C-A	13	3			13				
A-B	9	2			9				
A-C	10	2			10				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	59	15	650	0.091	59	0.1	0.1	6.097	A
C-AB	112	28	724	0.155	112	0.2	0.2	5.886	A
C-A	15	4			15				
A-B	11	3			11				
A-C	12	3			12				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	73	18	647	0.112	73	0.1	0.1	6.268	A
C-AB	139	35	725	0.191	138	0.2	0.2	6.136	A
C-A	18	4			18				
A-B	13	3			13				
A-C	14	4			14				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	73	18	647	0.112	73	0.1	0.1	6.268	A
C-AB	139	35	725	0.191	139	0.2	0.2	6.142	A
C-A	18	4			18				
A-B	13	3			13				
A-C	14	4			14				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS

B-AC	59	15	650	0.091	59	0.1	0.1	6.099	A
C-AB	112	28	724	0.155	113	0.2	0.2	5.895	A
C-A	15	4			15				
A-B	11	3			11				
A-C	12	3			12				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	50	12	652	0.076	50	0.1	0.1	5.983	A
C-AB	94	23	723	0.130	94	0.2	0.2	5.724	A
C-A	13	3			13				
A-B	9	2			9				
A-C	10	2			10				

2024 Baseline, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.49	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	42	100.000
B - Harold Avenue		ONE HOUR	✓	101	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	182	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	24
	B - Harold Avenue	11	0	90
	C - Nestles Avenue (W)	22	160	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.17	6.76	0.2	A	93	139
C-AB	0.25	6.68	0.3	A	151	227
C-A					16	24
A-B					17	25
A-C					22	33

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.0	0.1	6.258	A
C-AB	123	31	720	0.171	122	0.0	0.2	6.013	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.1	0.2	6.464	A
C-AB	148	37	721	0.205	148	0.2	0.3	6.280	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	5			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	644	0.173	111	0.2	0.2	6.759	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.672	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	643	0.173	111	0.2	0.2	6.762	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.680	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.2	0.2	6.471	A
C-AB	148	37	721	0.205	148	0.3	0.3	6.290	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	5			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.2	0.1	6.274	A
C-AB	123	31	721	0.171	124	0.3	0.2	6.034	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

2024 Baseline , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.19	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	72	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	63
	C - Nestles Avenue (W)	21	132	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.12	6.37	0.1	A	66	99
C-AB	0.21	6.26	0.3	A	125	187
C-A					16	24
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.0	0.1	6.034	A
C-AB	102	25	723	0.141	101	0.0	0.2	5.781	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.173	A
C-AB	122	30	724	0.168	122	0.2	0.2	5.977	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.364	A
C-AB	150	38	725	0.207	150	0.2	0.3	6.259	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.366	A
C-AB	150	38	725	0.207	150	0.3	0.3	6.262	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.176	A
C-AB	122	30	724	0.168	122	0.3	0.2	5.984	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.1	0.1	6.046	A
C-AB	102	25	723	0.141	102	0.2	0.2	5.798	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

2024 Baseline+Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.49	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	42	100.000
B - Harold Avenue		ONE HOUR	✓	101	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	182	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	24
	B - Harold Avenue	11	0	90
	C - Nestles Avenue (W)	22	160	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.17	6.76	0.2	A	93	139
C-AB	0.25	6.68	0.3	A	151	227
C-A					16	24
A-B					17	25
A-C					22	33

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.0	0.1	6.258	A
C-AB	123	31	720	0.171	122	0.0	0.2	6.013	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.1	0.2	6.464	A
C-AB	148	37	721	0.205	148	0.2	0.3	6.280	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	5			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	644	0.173	111	0.2	0.2	6.759	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.672	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	643	0.173	111	0.2	0.2	6.762	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.680	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.2	0.2	6.471	A
C-AB	148	37	721	0.205	148	0.3	0.3	6.290	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	5			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.2	0.1	6.274	A
C-AB	123	31	721	0.171	124	0.3	0.2	6.034	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

2024 Baseline+Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.19	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	72	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	63
	C - Nestles Avenue (W)	21	132	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.12	6.37	0.1	A	66	99
C-AB	0.21	6.26	0.3	A	125	187
C-A					16	24
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.0	0.1	6.034	A
C-AB	102	25	723	0.141	101	0.0	0.2	5.781	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.173	A
C-AB	122	30	724	0.168	122	0.2	0.2	5.977	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.364	A
C-AB	150	38	725	0.207	150	0.2	0.3	6.259	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.366	A
C-AB	150	38	725	0.207	150	0.3	0.3	6.262	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.176	A
C-AB	122	30	724	0.168	122	0.3	0.2	5.984	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.1	0.1	6.046	A
C-AB	102	25	723	0.141	102	0.2	0.2	5.798	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

2029 Baseline, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.56	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	43	100.000
B - Harold Avenue		ONE HOUR	✓	105	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	186	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	25
	B - Harold Avenue	12	0	93
	C - Nestles Avenue (W)	22	164	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.18	6.85	0.2	A	96	145
C-AB	0.26	6.74	0.4	A	155	232
C-A					16	24
A-B					17	25
A-C					23	34

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	649	0.122	78	0.0	0.1	6.311	A
C-AB	126	32	720	0.175	126	0.0	0.2	6.044	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	646	0.146	94	0.1	0.2	6.528	A
C-AB	152	38	721	0.210	151	0.2	0.3	6.323	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	6			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	115	0.2	0.2	6.843	A
C-AB	187	47	721	0.259	187	0.3	0.4	6.732	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	116	0.2	0.2	6.846	A
C-AB	187	47	721	0.259	187	0.4	0.4	6.741	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	645	0.146	95	0.2	0.2	6.536	A
C-AB	152	38	721	0.210	152	0.4	0.3	6.333	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	6			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	648	0.122	79	0.2	0.1	6.324	A
C-AB	126	32	720	0.175	127	0.3	0.2	6.068	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

2029 Baseline , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.23	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	74	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	158	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	65
	C - Nestles Avenue (W)	22	136	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.13	6.39	0.1	A	68	102
C-AB	0.21	6.31	0.3	A	128	193
C-A					16	25
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	55	0.0	0.1	6.044	A
C-AB	105	26	723	0.145	104	0.0	0.2	5.807	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	66	0.1	0.1	6.187	A
C-AB	126	31	724	0.174	126	0.2	0.2	6.010	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.382	A
C-AB	155	39	726	0.214	155	0.2	0.3	6.302	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.385	A
C-AB	155	39	726	0.214	155	0.3	0.3	6.307	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	67	0.1	0.1	6.192	A
C-AB	126	31	724	0.174	126	0.3	0.2	6.018	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	56	0.1	0.1	6.053	A
C-AB	105	26	723	0.145	105	0.2	0.2	5.824	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

2029 Baseline+Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.56	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	43	100.000
B - Harold Avenue		ONE HOUR	✓	105	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	186	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	25
	B - Harold Avenue	12	0	93
	C - Nestles Avenue (W)	22	164	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.18	6.85	0.2	A	96	145
C-AB	0.26	6.74	0.4	A	155	232
C-A					16	24
A-B					17	25
A-C					23	34

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	649	0.122	78	0.0	0.1	6.311	A
C-AB	126	32	720	0.175	126	0.0	0.2	6.044	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	646	0.146	94	0.1	0.2	6.528	A
C-AB	152	38	721	0.210	151	0.2	0.3	6.323	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	6			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	115	0.2	0.2	6.843	A
C-AB	187	47	721	0.259	187	0.3	0.4	6.732	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	116	0.2	0.2	6.846	A
C-AB	187	47	721	0.259	187	0.4	0.4	6.741	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	645	0.146	95	0.2	0.2	6.536	A
C-AB	152	38	721	0.210	152	0.4	0.3	6.333	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	6			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	648	0.122	79	0.2	0.1	6.324	A
C-AB	126	32	720	0.175	127	0.3	0.2	6.068	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

2029 Baseline+Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.23	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	74	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	158	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	65
	C - Nestles Avenue (W)	22	136	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.13	6.39	0.1	A	68	102
C-AB	0.21	6.31	0.3	A	128	193
C-A					16	25
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	55	0.0	0.1	6.044	A
C-AB	105	26	723	0.145	104	0.0	0.2	5.807	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	66	0.1	0.1	6.187	A
C-AB	126	31	724	0.174	126	0.2	0.2	6.010	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.382	A
C-AB	155	39	726	0.214	155	0.2	0.3	6.302	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.385	A
C-AB	155	39	726	0.214	155	0.3	0.3	6.307	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	67	0.1	0.1	6.192	A
C-AB	126	31	724	0.174	126	0.3	0.2	6.018	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	56	0.1	0.1	6.053	A
C-AB	105	26	723	0.145	105	0.2	0.2	5.824	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []
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Filename: J10 Nestles Av- Harold Av Priority Junction.j9
Path: C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 and 2029 Scenarios
Report generation date: 23/01/2017 18:16:10

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2016							
Stream B-AC	0.2	6.67	0.16	A	0.1	6.27	0.11	A
Stream C-AB	0.3	6.51	0.23	A	0.2	6.14	0.19	A
	2024 Baseline							
Stream B-AC	0.2	6.76	0.17	A	0.1	6.37	0.12	A
Stream C-AB	0.3	6.68	0.25	A	0.3	6.26	0.21	A
	2024 Baseline+Dev							
Stream B-AC	0.2	6.76	0.17	A	0.1	6.37	0.12	A
Stream C-AB	0.3	6.68	0.25	A	0.3	6.26	0.21	A
	2029 Baseline							
Stream B-AC	0.2	6.85	0.18	A	0.1	6.39	0.13	A
Stream C-AB	0.4	6.74	0.26	A	0.3	6.31	0.21	A
	2029 Baseline+Dev							
Stream B-AC	0.2	6.85	0.18	A	0.1	6.39	0.13	A
Stream C-AB	0.4	6.74	0.26	A	0.3	6.31	0.21	A

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.37	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Nestles Avenue (E)		Major
B	Harold Avenue		Minor
C	Nestles Avenue (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Nestles Avenue (W)	7.40			250.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Harold Avenue	One lane	3.80	17	16

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	530	0.091	0.229	0.144	0.328
1	B-C	685	0.099	0.249	-	-
1	C-B	719	0.262	0.262	-	-

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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	39	100.000

B - Harold Avenue		ONE HOUR	✓	94	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	168	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	**B - Harold Avenue**	**C - Nestles Avenue (W)**
From	**A - Nestles Avenue (E)**	0	17	22
	B - Harold Avenue	11	0	83
	C - Nestles Avenue (W)	20	148	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	**B - Harold Avenue**	**C - Nestles Avenue (W)**
From	**A - Nestles Avenue (E)**	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.16	6.67	0.2	A	86	129
C-AB	0.23	6.51	0.3	A	139	209
C-A					15	22
A-B					16	23
A-C					20	30

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	71	18	649	0.109	70	0.0	0.1	6.212	A
C-AB	114	28	720	0.158	113	0.0	0.2	5.922	A
C-A	13	3			13				
A-B	13	3			13				
A-C	17	4			17				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	85	21	647	0.131	84	0.1	0.1	6.400	A
C-AB	136	34	720	0.189	136	0.2	0.2	6.161	A
C-A	15	4			15				
A-B	15	4			15				
A-C	20	5			20				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	103	26	643	0.161	103	0.1	0.2	6.670	A
C-AB	168	42	721	0.233	168	0.2	0.3	6.506	A
C-A	17	4			17				
A-B	19	5			19				
A-C	24	6			24				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	103	26	643	0.161	103	0.2	0.2	6.673	A
C-AB	168	42	721	0.233	168	0.3	0.3	6.512	A
C-A	17	4			17				
A-B	19	5			19				
A-C	24	6			24				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	85	21	647	0.131	85	0.2	0.2	6.407	A
C-AB	136	34	720	0.189	137	0.3	0.2	6.172	A
C-A	15	4			15				
A-B	15	4			15				
A-C	20	5			20				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	71	18	649	0.109	71	0.2	0.1	6.227	A
C-AB	114	28	720	0.158	114	0.2	0.2	5.940	A
C-A	13	3			13				
A-B	13	3			13				
A-C	17	4			17				

2016, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.08	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2016	PM	ONE HOUR	16:45	18:15	15	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	25	100.000
B - Harold Avenue		ONE HOUR	✓	66	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	142	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	12	13
	B - Harold Avenue	8	0	58
	C - Nestles Avenue (W)	20	122	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.11	6.27	0.1	A	61	91
C-AB	0.19	6.14	0.2	A	115	172
C-A					15	23
A-B					11	17
A-C					12	18

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	50	12	652	0.076	49	0.0	0.1	5.974	A
C-AB	94	23	723	0.130	93	0.0	0.2	5.712	A
C-A	13	3			13				
A-B	9	2			9				
A-C	10	2			10				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	59	15	650	0.091	59	0.1	0.1	6.097	A
C-AB	112	28	724	0.155	112	0.2	0.2	5.886	A
C-A	15	4			15				
A-B	11	3			11				
A-C	12	3			12				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	73	18	647	0.112	73	0.1	0.1	6.268	A
C-AB	139	35	725	0.191	138	0.2	0.2	6.136	A
C-A	18	4			18				
A-B	13	3			13				
A-C	14	4			14				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	73	18	647	0.112	73	0.1	0.1	6.268	A
C-AB	139	35	725	0.191	139	0.2	0.2	6.142	A
C-A	18	4			18				
A-B	13	3			13				
A-C	14	4			14				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS

B-AC	59	15	650	0.091	59	0.1	0.1	6.099	A
C-AB	112	28	724	0.155	113	0.2	0.2	5.895	A
C-A	15	4			15				
A-B	11	3			11				
A-C	12	3			12				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	50	12	652	0.076	50	0.1	0.1	5.983	A
C-AB	94	23	723	0.130	94	0.2	0.2	5.724	A
C-A	13	3			13				
A-B	9	2			9				
A-C	10	2			10				

2024 Baseline, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.49	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 Baseline	AM	ONE HOUR	07:45	09:15	15	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	42	100.000
B - Harold Avenue		ONE HOUR	✓	101	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	182	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	24
	B - Harold Avenue	11	0	90
	C - Nestles Avenue (W)	22	160	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.17	6.76	0.2	A	93	139
C-AB	0.25	6.68	0.3	A	151	227
C-A					16	24
A-B					17	25
A-C					22	33

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.0	0.1	6.258	A
C-AB	123	31	720	0.171	122	0.0	0.2	6.013	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.1	0.2	6.464	A
C-AB	148	37	721	0.205	148	0.2	0.3	6.280	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	5			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	644	0.173	111	0.2	0.2	6.759	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.672	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	643	0.173	111	0.2	0.2	6.762	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.680	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.2	0.2	6.471	A
C-AB	148	37	721	0.205	148	0.3	0.3	6.290	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	5			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.2	0.1	6.274	A
C-AB	123	31	721	0.171	124	0.3	0.2	6.034	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

2024 Baseline , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.19	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	72	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	63
	C - Nestles Avenue (W)	21	132	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.12	6.37	0.1	A	66	99
C-AB	0.21	6.26	0.3	A	125	187
C-A					16	24
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.0	0.1	6.034	A
C-AB	102	25	723	0.141	101	0.0	0.2	5.781	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.173	A
C-AB	122	30	724	0.168	122	0.2	0.2	5.977	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.364	A
C-AB	150	38	725	0.207	150	0.2	0.3	6.259	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.366	A
C-AB	150	38	725	0.207	150	0.3	0.3	6.262	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.176	A
C-AB	122	30	724	0.168	122	0.3	0.2	5.984	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.1	0.1	6.046	A
C-AB	102	25	723	0.141	102	0.2	0.2	5.798	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

2024 Baseline+Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.49	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	42	100.000
B - Harold Avenue		ONE HOUR	✓	101	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	182	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	24
	B - Harold Avenue	11	0	90
	C - Nestles Avenue (W)	22	160	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.17	6.76	0.2	A	93	139
C-AB	0.25	6.68	0.3	A	151	227
C-A					16	24
A-B					17	25
A-C					22	33

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.0	0.1	6.258	A
C-AB	123	31	720	0.171	122	0.0	0.2	6.013	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.1	0.2	6.464	A
C-AB	148	37	721	0.205	148	0.2	0.3	6.280	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	5			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	644	0.173	111	0.2	0.2	6.759	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.672	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	643	0.173	111	0.2	0.2	6.762	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.680	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.2	0.2	6.471	A
C-AB	148	37	721	0.205	148	0.3	0.3	6.290	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	5			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.2	0.1	6.274	A
C-AB	123	31	721	0.171	124	0.3	0.2	6.034	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

2024 Baseline+Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.19	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	72	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	63
	C - Nestles Avenue (W)	21	132	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.12	6.37	0.1	A	66	99
C-AB	0.21	6.26	0.3	A	125	187
C-A					16	24
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.0	0.1	6.034	A
C-AB	102	25	723	0.141	101	0.0	0.2	5.781	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.173	A
C-AB	122	30	724	0.168	122	0.2	0.2	5.977	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.364	A
C-AB	150	38	725	0.207	150	0.2	0.3	6.259	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.366	A
C-AB	150	38	725	0.207	150	0.3	0.3	6.262	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.176	A
C-AB	122	30	724	0.168	122	0.3	0.2	5.984	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.1	0.1	6.046	A
C-AB	102	25	723	0.141	102	0.2	0.2	5.798	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

2029 Baseline, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.56	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	43	100.000
B - Harold Avenue		ONE HOUR	✓	105	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	186	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	25
	B - Harold Avenue	12	0	93
	C - Nestles Avenue (W)	22	164	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.18	6.85	0.2	A	96	145
C-AB	0.26	6.74	0.4	A	155	232
C-A					16	24
A-B					17	25
A-C					23	34

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	649	0.122	78	0.0	0.1	6.311	A
C-AB	126	32	720	0.175	126	0.0	0.2	6.044	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	646	0.146	94	0.1	0.2	6.528	A
C-AB	152	38	721	0.210	151	0.2	0.3	6.323	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	6			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	115	0.2	0.2	6.843	A
C-AB	187	47	721	0.259	187	0.3	0.4	6.732	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	116	0.2	0.2	6.846	A
C-AB	187	47	721	0.259	187	0.4	0.4	6.741	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	645	0.146	95	0.2	0.2	6.536	A
C-AB	152	38	721	0.210	152	0.4	0.3	6.333	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	6			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	648	0.122	79	0.2	0.1	6.324	A
C-AB	126	32	720	0.175	127	0.3	0.2	6.068	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

2029 Baseline , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.23	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	74	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	158	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	65
	C - Nestles Avenue (W)	22	136	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.13	6.39	0.1	A	68	102
C-AB	0.21	6.31	0.3	A	128	193
C-A					16	25
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	55	0.0	0.1	6.044	A
C-AB	105	26	723	0.145	104	0.0	0.2	5.807	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	66	0.1	0.1	6.187	A
C-AB	126	31	724	0.174	126	0.2	0.2	6.010	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.382	A
C-AB	155	39	726	0.214	155	0.2	0.3	6.302	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.385	A
C-AB	155	39	726	0.214	155	0.3	0.3	6.307	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	67	0.1	0.1	6.192	A
C-AB	126	31	724	0.174	126	0.3	0.2	6.018	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	56	0.1	0.1	6.053	A
C-AB	105	26	723	0.145	105	0.2	0.2	5.824	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

2029 Baseline+Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.56	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	43	100.000
B - Harold Avenue		ONE HOUR	✓	105	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	186	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	25
	B - Harold Avenue	12	0	93
	C - Nestles Avenue (W)	22	164	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.18	6.85	0.2	A	96	145
C-AB	0.26	6.74	0.4	A	155	232
C-A					16	24
A-B					17	25
A-C					23	34

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	649	0.122	78	0.0	0.1	6.311	A
C-AB	126	32	720	0.175	126	0.0	0.2	6.044	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	646	0.146	94	0.1	0.2	6.528	A
C-AB	152	38	721	0.210	151	0.2	0.3	6.323	A
C-A	16	4			16				
A-B	16	4			16				

A-C	22	6			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	115	0.2	0.2	6.843	A
C-AB	187	47	721	0.259	187	0.3	0.4	6.732	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	116	0.2	0.2	6.846	A
C-AB	187	47	721	0.259	187	0.4	0.4	6.741	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	645	0.146	95	0.2	0.2	6.536	A
C-AB	152	38	721	0.210	152	0.4	0.3	6.333	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	6			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	648	0.122	79	0.2	0.1	6.324	A
C-AB	126	32	720	0.175	127	0.3	0.2	6.068	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

2029 Baseline+Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.23	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	74	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	158	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	65
	C - Nestles Avenue (W)	22	136	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.13	6.39	0.1	A	68	102
C-AB	0.21	6.31	0.3	A	128	193
C-A					16	25
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	55	0.0	0.1	6.044	A
C-AB	105	26	723	0.145	104	0.0	0.2	5.807	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	66	0.1	0.1	6.187	A
C-AB	126	31	724	0.174	126	0.2	0.2	6.010	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.382	A
C-AB	155	39	726	0.214	155	0.2	0.3	6.302	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.385	A
C-AB	155	39	726	0.214	155	0.3	0.3	6.307	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	67	0.1	0.1	6.192	A
C-AB	126	31	724	0.174	126	0.3	0.2	6.018	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	56	0.1	0.1	6.053	A
C-AB	105	26	723	0.145	105	0.2	0.2	5.824	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []
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Filename: J10 Nestles Av- Harold Av Priority Junction.j9
Path: C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2024 Cumulative
Report generation date: 24/01/2017 10:39:16

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2024 Baseline							
Stream B-AC	0.2	6.76	0.17	A	0.1	6.37	0.12	A
Stream C-AB	0.3	6.68	0.25	A	0.3	6.26	0.21	A
	2024 Baseline+Dev							
Stream B-AC	0.2	6.76	0.17	A	0.1	6.37	0.12	A
Stream C-AB	0.3	6.68	0.25	A	0.3	6.26	0.21	A

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

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

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.49	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Nestles Avenue (E)		Major
B	Harold Avenue		Minor
C	Nestles Avenue (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Nestles Avenue (W)	7.40			250.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Harold Avenue	One lane	3.80	17	16

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	530	0.091	0.229	0.144	0.328
1	B-C	685	0.099	0.249	-	-
1	C-B	719	0.262	0.262	-	-

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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	42	100.000
B - Harold Avenue		ONE HOUR	✓	101	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	182	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	**B - Harold Avenue**	**C - Nestles Avenue (W)**
From	**A - Nestles Avenue (E)**	0	18	24
	B - Harold Avenue	11	0	90
	C - Nestles Avenue (W)	22	160	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.17	6.76	0.2	A	93	139
C-AB	0.25	6.68	0.3	A	151	227
C-A					16	24
A-B					17	25
A-C					22	33

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.0	0.1	6.258	A
C-AB	123	31	720	0.171	122	0.0	0.2	6.013	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.1	0.2	6.464	A
C-AB	148	37	721	0.205	148	0.2	0.3	6.280	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	5			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	644	0.173	111	0.2	0.2	6.759	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.672	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	643	0.173	111	0.2	0.2	6.762	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.680	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.2	0.2	6.471	A
C-AB	148	37	721	0.205	148	0.3	0.3	6.290	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	5			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.2	0.1	6.274	A
C-AB	123	31	721	0.171	124	0.3	0.2	6.034	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

2024 Baseline , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.19	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	72	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	63
	C - Nestles Avenue (W)	21	132	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.12	6.37	0.1	A	66	99
C-AB	0.21	6.26	0.3	A	125	187
C-A					16	24
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.0	0.1	6.034	A

C-AB	102	25	723	0.141	101	0.0	0.2	5.781	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.173	A
C-AB	122	30	724	0.168	122	0.2	0.2	5.977	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.364	A
C-AB	150	38	725	0.207	150	0.2	0.3	6.259	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.366	A
C-AB	150	38	725	0.207	150	0.3	0.3	6.262	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.176	A
C-AB	122	30	724	0.168	122	0.3	0.2	5.984	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.1	0.1	6.046	A
C-AB	102	25	723	0.141	102	0.2	0.2	5.798	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

2024 Baseline+Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.49	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2024 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	42	100.000
B - Harold Avenue		ONE HOUR	✓	101	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	182	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	24
	B - Harold Avenue	11	0	90
	C - Nestles Avenue (W)	22	160	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.17	6.76	0.2	A	93	139
C-AB	0.25	6.68	0.3	A	151	227
C-A					16	24
A-B					17	25
A-C					22	33

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.0	0.1	6.258	A
C-AB	123	31	720	0.171	122	0.0	0.2	6.013	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.1	0.2	6.464	A
C-AB	148	37	721	0.205	148	0.2	0.3	6.280	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	5			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	644	0.173	111	0.2	0.2	6.759	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.672	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	111	28	643	0.173	111	0.2	0.2	6.762	A
C-AB	182	46	721	0.253	182	0.3	0.3	6.680	A
C-A	18	5			18				
A-B	20	5			20				
A-C	26	7			26				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	91	23	647	0.140	91	0.2	0.2	6.471	A
C-AB	148	37	721	0.205	148	0.3	0.3	6.290	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	5			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	76	19	650	0.117	76	0.2	0.1	6.274	A
C-AB	123	31	721	0.171	124	0.3	0.2	6.034	A
C-A	14	3			14				
A-B	14	3			14				
A-C	18	5			18				

2024 Baseline+Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.19	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	72	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	153	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	63
	C - Nestles Avenue (W)	21	132	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.12	6.37	0.1	A	66	99
C-AB	0.21	6.26	0.3	A	125	187
C-A					16	24
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.0	0.1	6.034	A
C-AB	102	25	723	0.141	101	0.0	0.2	5.781	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.173	A
C-AB	122	30	724	0.168	122	0.2	0.2	5.977	A
C-A	16	4			16				

A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.364	A
C-AB	150	38	725	0.207	150	0.2	0.3	6.259	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	645	0.123	79	0.1	0.1	6.366	A
C-AB	150	38	725	0.207	150	0.3	0.3	6.262	A
C-A	18	5			18				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	65	16	648	0.100	65	0.1	0.1	6.176	A
C-AB	122	30	724	0.168	122	0.3	0.2	5.984	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	54	14	650	0.083	54	0.1	0.1	6.046	A
C-AB	102	25	723	0.141	102	0.2	0.2	5.798	A
C-A	14	3			14				
A-B	10	2			10				
A-C	11	3			11				

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 []
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Filename: J10 Nestles Av- Harold Av Priority Junction.j9
Path: C:\Users\Demetris Psyllides\Dropbox (Markides Associates)\Markides Associates Team Folder\Projects\16018.01 - Former Nestle Site, Hayes\Technical\Picady\2029 Cumulative
Report generation date: 24/01/2017 15:56:05

Summary of junction performance

	AM				PM			
	Queue (PCU)	Delay (s)	RFC	LOS	Queue (PCU)	Delay (s)	RFC	LOS
	2029 Baseline							
Stream B-AC	0.2	6.85	0.18	A	0.1	6.39	0.13	A
Stream C-AB	0.4	6.74	0.26	A	0.3	6.31	0.21	A
	2029 Baseline+Dev							
Stream B-AC	0.2	6.85	0.18	A	0.1	6.39	0.13	A
Stream C-AB	0.4	6.74	0.26	A	0.3	6.31	0.21	A

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tables for each Analysis or Demand Set.

Values shown are the highest values encountered over all time segments. Delay is the maximum value of average delay per arriving vehicle.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	19/11/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DEMETRIS-PSYLLI\Demetris Psyllides
Description	

Units

Distance units	Speed units	Traffic units input	Traffic units results	Flow units	Average delay units	Total delay units	Rate of delay units
m	kph	PCU	PCU	perHour	s	-Min	perMin

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75				0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2029 Baseline	AM	ONE HOUR	07:45	09:15	15	✓
D8	2029 Baseline	PM	ONE HOUR	16:45	18:15	15	✓
D9	2029 Baseline+Dev	AM	ONE HOUR	07:45	09:15	15	✓
D10	2029 Baseline+Dev	PM	ONE HOUR	16:45	18:15	15	✓

Analysis Set Details

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

2029 Baseline, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.56	A

Junction Network Options

Driving side	Lighting
Left	Normal/unknown

Arms

Arms

Arm	Name	Description	Arm type
A	Nestles Avenue (E)		Major
B	Harold Avenue		Minor
C	Nestles Avenue (W)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Nestles Avenue (W)	7.40			250.0	✓	0.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B - Harold Avenue	One lane	3.80	17	16

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	530	0.091	0.229	0.144	0.328
1	B-C	685	0.099	0.249	-	-
1	C-B	719	0.262	0.262	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.
Streams may be combined, in which case capacity will be adjusted.
Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

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

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 - Nestles Avenue (E)		ONE HOUR	✓	43	100.000
B - Harold Avenue		ONE HOUR	✓	105	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	186	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	**B - Harold Avenue**	**C - Nestles Avenue (W)**
From	**A - Nestles Avenue (E)**	0	18	25
	B - Harold Avenue	12	0	93
	C - Nestles Avenue (W)	22	164	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.18	6.85	0.2	A	96	145
C-AB	0.26	6.74	0.4	A	155	232
C-A					16	24
A-B					17	25
A-C					23	34

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	649	0.122	78	0.0	0.1	6.311	A
C-AB	126	32	720	0.175	126	0.0	0.2	6.044	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	646	0.146	94	0.1	0.2	6.528	A
C-AB	152	38	721	0.210	151	0.2	0.3	6.323	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	6			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	115	0.2	0.2	6.843	A
C-AB	187	47	721	0.259	187	0.3	0.4	6.732	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	116	0.2	0.2	6.846	A
C-AB	187	47	721	0.259	187	0.4	0.4	6.741	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	645	0.146	95	0.2	0.2	6.536	A
C-AB	152	38	721	0.210	152	0.4	0.3	6.333	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	6			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	648	0.122	79	0.2	0.1	6.324	A
C-AB	126	32	720	0.175	127	0.3	0.2	6.068	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

2029 Baseline , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.23	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	74	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	158	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	65
	C - Nestles Avenue (W)	22	136	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.13	6.39	0.1	A	68	102
C-AB	0.21	6.31	0.3	A	128	193
C-A					16	25
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	55	0.0	0.1	6.044	A

C-AB	105	26	723	0.145	104	0.0	0.2	5.807	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	66	0.1	0.1	6.187	A
C-AB	126	31	724	0.174	126	0.2	0.2	6.010	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.382	A
C-AB	155	39	726	0.214	155	0.2	0.3	6.302	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.385	A
C-AB	155	39	726	0.214	155	0.3	0.3	6.307	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	67	0.1	0.1	6.192	A
C-AB	126	31	724	0.174	126	0.3	0.2	6.018	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	56	0.1	0.1	6.053	A
C-AB	105	26	723	0.145	105	0.2	0.2	5.824	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

2029 Baseline+Dev, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.56	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	43	100.000
B - Harold Avenue		ONE HOUR	✓	105	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	186	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	18	25
	B - Harold Avenue	12	0	93
	C - Nestles Avenue (W)	22	164	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.18	6.85	0.2	A	96	145
C-AB	0.26	6.74	0.4	A	155	232
C-A					16	24
A-B					17	25
A-C					23	34

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	649	0.122	78	0.0	0.1	6.311	A
C-AB	126	32	720	0.175	126	0.0	0.2	6.044	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	646	0.146	94	0.1	0.2	6.528	A
C-AB	152	38	721	0.210	151	0.2	0.3	6.323	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	6			22				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	115	0.2	0.2	6.843	A
C-AB	187	47	721	0.259	187	0.3	0.4	6.732	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	116	29	641	0.180	116	0.2	0.2	6.846	A
C-AB	187	47	721	0.259	187	0.4	0.4	6.741	A
C-A	18	4			18				
A-B	20	5			20				
A-C	28	7			28				

08:45 - 09:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	94	24	645	0.146	95	0.2	0.2	6.536	A
C-AB	152	38	721	0.210	152	0.4	0.3	6.333	A
C-A	16	4			16				
A-B	16	4			16				
A-C	22	6			22				

09:00 - 09:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	79	20	648	0.122	79	0.2	0.1	6.324	A
C-AB	126	32	720	0.175	127	0.3	0.2	6.068	A
C-A	14	3			14				
A-B	14	3			14				
A-C	19	5			19				

2029 Baseline+Dev, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	untitled	T-Junction	Two-way	5.23	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	✓

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 - Nestles Avenue (E)		ONE HOUR	✓	27	100.000
B - Harold Avenue		ONE HOUR	✓	74	100.000
C - Nestles Avenue (W)		ONE HOUR	✓	158	100.000

Origin-Destination Data

Demand (PCU/hr)

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	13	14
	B - Harold Avenue	9	0	65
	C - Nestles Avenue (W)	22	136	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A - Nestles Avenue (E)	B - Harold Avenue	C - Nestles Avenue (W)
From	A - Nestles Avenue (E)	0	0	0
	B - Harold Avenue	0	0	0
	C - Nestles Avenue (W)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-AC	0.13	6.39	0.1	A	68	102
C-AB	0.21	6.31	0.3	A	128	193
C-A					16	25
A-B					12	18
A-C					13	19

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	55	0.0	0.1	6.044	A
C-AB	105	26	723	0.145	104	0.0	0.2	5.807	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	66	0.1	0.1	6.187	A
C-AB	126	31	724	0.174	126	0.2	0.2	6.010	A
C-A	16	4			16				

A-B	12	3			12				
A-C	13	3			13				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.382	A
C-AB	155	39	726	0.214	155	0.2	0.3	6.302	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	81	20	645	0.126	81	0.1	0.1	6.385	A
C-AB	155	39	726	0.214	155	0.3	0.3	6.307	A
C-A	19	5			19				
A-B	14	4			14				
A-C	15	4			15				

17:45 - 18:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	67	17	648	0.103	67	0.1	0.1	6.192	A
C-AB	126	31	724	0.174	126	0.3	0.2	6.018	A
C-A	16	4			16				
A-B	12	3			12				
A-C	13	3			13				

18:00 - 18:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	LOS
B-AC	56	14	651	0.086	56	0.1	0.1	6.053	A
C-AB	105	26	723	0.145	105	0.2	0.2	5.824	A
C-A	14	4			14				
A-B	10	2			10				
A-C	11	3			11				