

Appendix 8

Modelling Outputs

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 JJ
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Filename: 1616 Pagham S North Access.j9

Path: C:\Users\Fiona\OneDrive - Highgate Transportation\1600 - Projects\1616 - Summer Lane, Pagham\Cumulative Impact\Modelling

Report generation date: 21/12/2016 23:43:10

» 2022 + Development, AM
» 2022 + Development, PM
» 2027 + Development, AM
» 2027 + Development, PM

Summary of junction performance

	AM								PM							
	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity
	2022 + Development															
Stream B-AC	0.5	2.0	8.94	0.31	A	2.20	A	84 %	0.5	2.3	9.72	0.34	A	2.49	A	74 %
Stream C-AB	0.2	0.5	6.16	0.16	A			[Stream B-AC]	0.2	0.5	5.95	0.17	A			[Stream B-AC]
	2027 + Development															
Stream B-AC	0.5	2.0	9.02	0.32	A	2.18	A	82 %	0.5	2.3	9.80	0.34	A	2.47	A	73 %
Stream C-AB	0.2	0.5	6.19	0.16	A			[Stream B-AC]	0.2	0.5	5.97	0.17	A			[Stream B-AC]

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. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	12/06/2016
Version	
Status	(new file)
Identifier	
Client	
Job number	
Enumerator	DESKTOP-MD9GBJC\Fiona
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	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 + Development	AM	ONE HOUR	07:45	09:15	15

D2	2022 + Development	PM	ONE HOUR	18:45	18:15	15
D3	2027 + Development	AM	ONE HOUR	07:45	09:15	15
D4	2027 + Development	PM	ONE HOUR	18:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022 + Development, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Northern Site Access	T-Junction	Two-way	2.20	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	84	Stream B-AC

Arms

Arms

Arm	Name	Description	Arm type
A	Pagham Road South		Major
B	Site		Minor
C	Pagham Road North		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	250.0	✓	6.00

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	One lane	5.00	65	44

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	625	0.109	0.275	0.173	0.393
1	B-C	782	0.115	0.290	-	-
1	C-B	820	0.304	0.304	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 + Development	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	374	100.000
B		✓	168	100.000
C		✓	408	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	55	319
	B	37	0	131
	C	309	99	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	2
	B	0	0	1
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.31	8.94	0.5	2.0	A
C-AB	0.16	6.16	0.2	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	126	636	0.199	125	0.2	7.035	A
C-AB	75	733	0.102	74	0.1	5.458	A
C-A	233			233			
A-B	41			41			
A-C	240			240			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	151	616	0.245	151	0.3	7.732	A
C-AB	89	716	0.124	89	0.1	5.738	A
C-A	278			278			
A-B	49			49			
A-C	287			287			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	185	587	0.315	184	0.5	8.920	A
C-AB	109	693	0.157	109	0.2	6.162	A
C-A	340			340			
A-B	61			61			
A-C	351			351			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	185	587	0.315	185	0.5	8.944	A
C-AB	109	693	0.157	109	0.2	6.164	A

C-A	340			340			
A-B	81			81			
A-C	351			351			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	151	616	0.245	152	0.3	7.760	A
C-AB	89	716	0.124	89	0.1	5.741	A
C-A	278			278			
A-B	49			49			
A-C	287			287			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	126	636	0.199	127	0.3	7.070	A
C-AB	75	733	0.102	75	0.1	5.466	A
C-A	233			233			
A-B	41			41			
A-C	240			240			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.25	0.00	0.00	0.25	0.25			N/A	N/A
C-AB	0.11	0.00	0.00	0.11	0.11			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.32	0.00	0.00	0.32	0.32			N/A	N/A
C-AB	0.14	0.00	0.00	0.14	0.14			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.45	0.03	0.26	0.46	0.49			N/A	N/A
C-AB	0.19	0.03	0.26	0.46	0.49			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.46	0.03	0.31	1.35	1.96			N/A	N/A
C-AB	0.19	0.03	0.25	0.45	0.48			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.33	0.00	0.00	0.33	0.33			N/A	N/A
C-AB	0.14	0.00	0.00	0.14	0.14			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.25	0.00	0.00	0.25	0.25			N/A	N/A
C-AB	0.11	0.00	0.00	0.11	0.11			N/A	N/A

2022 + Development, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Northern Site Access	T-Junction	Two-way	2.49	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	74	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022 + Development	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	267	100.000
B		✓	170	100.000
C		✓	486	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	44	223
	B	68	0	102
	C	373	113	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	2
	B	0	0	1
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.34	9.72	0.5	2.3	A
C-AB	0.17	5.95	0.2	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	128	607	0.211	127	0.3	7.476	A
C-AB	85	758	0.112	85	0.1	5.341	A
C-A	281			281			
A-B	33			33			
A-C	168			168			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	153	587	0.260	152	0.3	8.283	A
C-AB	102	746	0.136	101	0.2	5.582	A
C-A	335			335			
A-B	40			40			
A-C	200			200			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	187	558	0.336	187	0.5	9.689	A
C-AB	124	729	0.171	124	0.2	5.947	A
C-A	411			411			
A-B	48			48			
A-C	246			246			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	187	557	0.336	187	0.5	9.721	A
C-AB	124	729	0.171	124	0.2	5.949	A
C-A	411			411			
A-B	48			48			
A-C	246			246			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	153	587	0.261	153	0.4	8.321	A
C-AB	102	746	0.136	102	0.2	5.590	A
C-A	335			335			
A-B	40			40			
A-C	200			200			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	128	607	0.211	128	0.3	7.522	A
C-AB	85	758	0.112	85	0.1	5.349	A
C-A	281			281			
A-B	33			33			
A-C	168			168			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.26	0.00	0.00	0.26	0.26			N/A	N/A
C-AB	0.13	0.00	0.00	0.13	0.13			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.35	0.00	0.00	0.35	0.35			N/A	N/A
C-AB	0.16	0.00	0.00	0.16	0.16			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.50	0.03	0.26	0.50	0.50			N/A	N/A
C-AB	0.20	0.03	0.26	0.46	0.49			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.50	0.03	0.30	1.35	2.28			N/A	N/A
C-AB	0.20	0.03	0.26	0.47	0.49			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.36	0.00	0.00	0.36	0.36			N/A	N/A
C-AB	0.16	0.00	0.00	0.16	0.16			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.27	0.00	0.00	0.27	0.27			N/A	N/A
C-AB	0.13	0.00	0.00	0.13	0.13			N/A	N/A

2027 + Development, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Northern Site Access	T-Junction	Two-way	2.18	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	82	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2027 + Development	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	382	100.000
B		✓	168	100.000
C		✓	417	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A	B	C	
From	A	0	55	327	
	B	37	0	131	
	C	318	99	0	

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	
From	A	0	1	2	
	B	0	0	1	
	C	2	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.32	9.02	0.5	2.0	A
C-AB	0.16	8.19	0.2	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	126	634	0.199	125	0.2	7.066	A
C-AB	75	731	0.102	74	0.1	5.473	A
C-A	239			239			
A-B	41			41			
A-C	246			246			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	151	613	0.246	151	0.3	7.777	A
C-AB	89	714	0.125	89	0.1	5.758	A
C-A	286			286			
A-B	49			49			
A-C	294			294			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	185	584	0.317	184	0.5	8.998	A
C-AB	109	690	0.158	109	0.2	6.191	A
C-A	350			350			
A-B	61			61			
A-C	360			360			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	185	584	0.317	185	0.5	9.021	A
C-AB	109	690	0.158	109	0.2	6.193	A
C-A	350			350			
A-B	61			61			
A-C	360			360			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	151	613	0.246	152	0.3	7.806	A
C-AB	89	714	0.125	89	0.1	5.761	A
C-A	286			286			
A-B	49			49			
A-C	294			294			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	126	634	0.200	127	0.3	7.101	A
C-AB	75	731	0.102	75	0.1	5.482	A
C-A	239			239			
A-B	41			41			
A-C	246			246			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.25	0.00	0.00	0.25	0.25			N/A	N/A
C-AB	0.11	0.00	0.00	0.11	0.11			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.32	0.00	0.00	0.32	0.32			N/A	N/A
C-AB	0.14	0.00	0.00	0.14	0.14			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.46	0.03	0.26	0.46	0.49			N/A	N/A
C-AB	0.19	0.03	0.26	0.46	0.49			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.46	0.03	0.30	1.35	1.98			N/A	N/A
C-AB	0.19	0.03	0.25	0.46	0.48			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.33	0.00	0.00	0.33	0.33			N/A	N/A
C-AB	0.14	0.00	0.00	0.14	0.14			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.25	0.00	0.00	0.25	0.25			N/A	N/A
C-AB	0.11	0.00	0.00	0.11	0.11			N/A	N/A

2027 + Development, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Northern Site Access	T-Junction	Two-way	2.47	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	73	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2027 + Development	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	272	100.000
B		✓	170	100.000
C		✓	495	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	44	228
	B	68	0	102
	C	382	113	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	2
	B	0	0	1
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.34	9.80	0.5	2.3	A
C-AB	0.17	5.97	0.2	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	128	606	0.211	127	0.3	7.505	A
C-AB	85	757	0.112	85	0.1	5.350	A
C-A	288			288			
A-B	33			33			
A-C	172			172			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	153	584	0.261	152	0.3	8.326	A
C-AB	102	745	0.136	101	0.2	5.594	A
C-A	343			343			
A-B	40			40			
A-C	205			205			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	187	555	0.337	187	0.5	9.763	A
C-AB	124	728	0.171	124	0.2	5.964	A
C-A	421			421			
A-B	48			48			
A-C	251			251			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	187	555	0.337	187	0.5	9.796	A
C-AB	124	728	0.171	124	0.2	5.966	A
C-A	421			421			
A-B	48			48			
A-C	251			251			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	153	584	0.262	153	0.4	8.365	A
C-AB	102	745	0.136	102	0.2	5.600	A
C-A	343			343			
A-B	40			40			
A-C	205			205			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	128	605	0.211	128	0.3	7.554	A
C-AB	85	757	0.112	85	0.1	5.361	A
C-A	288			288			
A-B	33			33			
A-C	172			172			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.27	0.00	0.00	0.27	0.27			N/A	N/A
C-AB	0.13	0.00	0.00	0.13	0.13			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.35	0.00	0.00	0.35	0.35			N/A	N/A
C-AB	0.16	0.00	0.00	0.16	0.16			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.50	0.03	0.26	0.50	0.50			N/A	N/A
C-AB	0.20	0.03	0.26	0.46	0.49			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.51	0.03	0.30	1.35	2.30			N/A	N/A
C-AB	0.21	0.03	0.26	0.47	0.49			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.36	0.00	0.00	0.36	0.36			N/A	N/A
C-AB	0.16	0.00	0.00	0.16	0.16			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.27	0.00	0.00	0.27	0.27			N/A	N/A
C-AB	0.13	0.00	0.00	0.13	0.13			N/A	N/A

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4648 JJ
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Filename: 1616 Pagham S South Access.j9

Path: C:\Users\Fiona\OneDrive - Highgate Transportation\1600 - Projects\1616 - Summer Lane, Pagham\Cumulative Impact\Modelling

Report generation date: 21/12/2016 23:44:13

» 2022 + CUMULATIVE, AM
» 2022 + CUMULATIVE, PM
» 2027 + CUMULATIVE, AM
» 2027 + CUMULATIVE, PM

Summary of junction performance

	AM								PM							
	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity
	2022 + CUMULATIVE															
Stream B-AC	0.2	0.5	6.48	0.14	A	0.99	A	229 %	0.1	0.5	5.79	0.07	A	0.91	A	253 %
Stream C-AB	0.1	0.5	5.96	0.06	A			[Stream B-AC]	0.1	0.5	6.16	0.11	A			[Stream B-AC]
	2027 + CUMULATIVE															
Stream B-AC	0.2	0.5	6.51	0.14	A	0.97	A	223 %	0.1	0.5	5.81	0.07	A	0.89	A	247 %
Stream C-AB	0.1	0.5	5.98	0.06	A			[Stream B-AC]	0.1	0.5	6.17	0.11	A			[Stream B-AC]

There are warnings associated with one or more model runs - see the 'Data Errors and Warnings' tab 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. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	12/06/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DESKTOP-MD9GBJC\Fiona
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	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

D2	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15
D3	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D4	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Southern Site Access	T-Junction	Two-way	0.99	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	229	Stream B-AC

Arms

Arms

Arm	Name	Description	Arm type
A	Pagham Road South		Major
B	Site		Minor
C	Pagham Road North		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width for right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C	7.00		✓	3.50	111.0	✓	5.00

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

Minor Arm Geometry

Arm	Minor arm type	Lane width (m)	Visibility to left (m)	Visibility to right (m)
B	One lane	4.19	59	68

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	594	0.103	0.261	0.164	0.373
1	B-C	746	0.109	0.277	-	-
1	C-B	729	0.270	0.270	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	294	100.000
B		✓	83	100.000
C		✓	346	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
	A	B	C	
From	A	0	1	293
	B	2	0	81
	C	314	32	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	0	2
	B	0	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.14	8.48	0.2	0.5	A
C-AB	0.06	5.96	0.1	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	62	677	0.092	62	0.1	5.848	A
C-AB	24	668	0.036	24	0.0	5.591	A
C-A	236			236			
A-B	0.75			0.75			
A-C	221			221			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	75	665	0.112	75	0.1	6.100	A
C-AB	29	656	0.044	29	0.0	5.741	A
C-A	282			282			
A-B	0.90			0.90			
A-C	263			263			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	91	647	0.141	91	0.2	6.473	A
C-AB	35	639	0.055	35	0.1	5.957	A
C-A	346			346			
A-B	1			1			
A-C	323			323			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	91	647	0.141	91	0.2	6.475	A
C-AB	35	639	0.055	35	0.1	5.957	A

C-A	346			346			
A-B	1			1			
A-C	323			323			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	75	665	0.112	75	0.1	6.105	A
C-AB	29	656	0.044	29	0.0	5.744	A
C-A	282			282			
A-B	0.90			0.90			
A-C	263			263			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	62	677	0.092	63	0.1	5.859	A
C-AB	24	668	0.036	24	0.0	5.594	A
C-A	236			236			
A-B	0.75			0.75			
A-C	221			221			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.10	0.00	0.00	0.10	0.10			N/A	N/A
C-AB	0.04	0.00	0.00	0.04	0.04			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.13	0.00	0.00	0.13	0.13			N/A	N/A
C-AB	0.05	0.03	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.16	0.03	0.26	0.46	0.49			N/A	N/A
C-AB	0.06	0.03	0.26	0.46	0.49			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.16	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	0.06	0.00	0.00	0.06	0.06			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.13	0.00	0.00	0.13	0.13			N/A	N/A
C-AB	0.05	0.00	0.00	0.05	0.05			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.10	0.00	0.00	0.10	0.10			N/A	N/A
C-AB	0.04	0.00	0.00	0.04	0.04			N/A	N/A

2022 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Southern Site Access	T-Junction	Two-way	0.91	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	253	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	228	100.000
B		✓	41	100.000
C		✓	441	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		A	B	C	
	A	0	1	227	
	B	1	0	40	
	C	373	68	0	

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		A	B	C	
	A	0	0	2	
	B	0	0	0	
	C	2	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.07	5.79	0.1	0.5	A
C-AB	0.11	8.16	0.1	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	31	690	0.045	31	0.0	5.456	A
C-AB	51	681	0.075	51	0.1	5.708	A
C-A	281			281			
A-B	0.75			0.75			
A-C	171			171			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	37	680	0.054	37	0.1	5.594	A
C-AB	61	672	0.091	61	0.1	5.891	A
C-A	335			335			
A-B	0.90			0.90			
A-C	204			204			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	45	666	0.068	45	0.1	5.795	A
C-AB	75	659	0.114	75	0.1	6.157	A
C-A	411			411			
A-B	1			1			
A-C	250			250			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	45	666	0.068	45	0.1	5.795	A
C-AB	75	659	0.114	75	0.1	6.157	A
C-A	411			411			
A-B	1			1			
A-C	250			250			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	37	680	0.054	37	0.1	5.597	A
C-AB	61	672	0.091	61	0.1	5.893	A
C-A	335			335			
A-B	0.90			0.90			
A-C	204			204			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	31	690	0.045	31	0.0	5.461	A
C-AB	51	681	0.075	51	0.1	5.716	A
C-A	281			281			
A-B	0.75			0.75			
A-C	171			171			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.08	0.00	0.00	0.08	0.08			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.06	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	0.10	0.03	0.25	0.45	0.48			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.07	0.03	0.26	0.47	0.49			N/A	N/A
C-AB	0.13	0.03	0.26	0.46	0.49			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.07	0.00	0.00	0.07	0.07			N/A	N/A
C-AB	0.13	0.03	0.25	0.45	0.48			N/A	N/A

17:45 - 18:00

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

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.08	0.00	0.00	0.08	0.08			N/A	N/A

2027 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Southern Site Access	T-Junction	Two-way	0.97	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	223	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	302	100.000
B		✓	83	100.000
C		✓	355	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	1	301
	B	2	0	81
	C	323	32	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	0	2
	B	0	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.14	6.51	0.2	0.5	A
C-AB	0.06	5.98	0.1	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	62	675	0.093	62	0.1	5.865	A
C-AB	24	666	0.036	24	0.0	5.606	A
C-A	243			243			
A-B	0.75			0.75			
A-C	227			227			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	75	663	0.113	75	0.1	6.122	A
C-AB	29	654	0.044	29	0.0	5.759	A
C-A	290			290			
A-B	0.90			0.90			
A-C	271			271			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	91	645	0.142	91	0.2	6.503	A
C-AB	35	637	0.055	35	0.1	5.981	A
C-A	356			356			
A-B	1			1			
A-C	331			331			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	91	645	0.142	91	0.2	6.505	A
C-AB	35	637	0.055	35	0.1	5.981	A
C-A	356			356			
A-B	1			1			
A-C	331			331			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	75	663	0.113	75	0.1	6.125	A
C-AB	29	654	0.044	29	0.0	5.760	A
C-A	290			290			
A-B	0.90			0.90			
A-C	271			271			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	62	675	0.093	63	0.1	5.874	A
C-AB	24	666	0.036	24	0.0	5.608	A
C-A	243			243			
A-B	0.75			0.75			
A-C	227			227			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.10	0.00	0.00	0.10	0.10			N/A	N/A
C-AB	0.04	0.00	0.00	0.04	0.04			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.13	0.00	0.00	0.13	0.13			N/A	N/A
C-AB	0.05	0.03	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.16	0.03	0.26	0.46	0.49			N/A	N/A
C-AB	0.06	0.03	0.26	0.46	0.49			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.16	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	0.06	0.00	0.00	0.06	0.06			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.13	0.00	0.00	0.13	0.13			N/A	N/A
C-AB	0.05	0.00	0.00	0.05	0.05			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.10	0.00	0.00	0.10	0.10			N/A	N/A
C-AB	0.04	0.00	0.00	0.04	0.04			N/A	N/A

2027 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Southern Site Access	T-Junction	Two-way	0.89	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	247	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	233	100.000
B		✓	41	100.000
C		✓	450	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	1	232
	B	1	0	40
	C	382	68	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	2
	B	0	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.07	5.81	0.1	0.5	A
C-AB	0.11	8.17	0.1	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	31	689	0.045	31	0.0	5.465	A
C-AB	51	680	0.075	51	0.1	5.717	A
C-A	288			288			
A-B	0.75			0.75			
A-C	175			175			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	37	679	0.054	37	0.1	5.606	A
C-AB	61	671	0.091	61	0.1	5.903	A
C-A	343			343			
A-B	0.90			0.90			
A-C	209			209			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	45	665	0.068	45	0.1	5.810	A
C-AB	75	658	0.114	75	0.1	6.173	A
C-A	421			421			
A-B	1			1			
A-C	255			255			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	45	665	0.068	45	0.1	5.810	A
C-AB	75	658	0.114	75	0.1	6.173	A
C-A	421			421			
A-B	1			1			
A-C	255			255			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	37	679	0.054	37	0.1	5.607	A
C-AB	61	671	0.091	61	0.1	5.907	A
C-A	343			343			
A-B	0.90			0.90			
A-C	209			209			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	31	689	0.045	31	0.0	5.470	A
C-AB	51	680	0.075	51	0.1	5.725	A
C-A	288			288			
A-B	0.75			0.75			
A-C	175			175			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.08	0.00	0.00	0.08	0.08			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
--------	------------	-----------	-----------	-----------	-----------	--------------------	----------------	---	--

B-AC	0.06	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	0.10	0.03	0.25	0.45	0.48			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.07	0.03	0.26	0.47	0.49			N/A	N/A
C-AB	0.13	0.03	0.26	0.46	0.49			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.07	0.00	0.00	0.07	0.07			N/A	N/A
C-AB	0.13	0.03	0.25	0.45	0.48			N/A	N/A

17:45 - 18:00

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

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.08	0.00	0.00	0.08	0.08			N/A	N/A

Junctions 9
PICADY 9 - Priority Intersection Module
Version: 9.0.1.4646 [J] © Copyright TRL Limited, 2016
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Filename: 1616 Nyetimber Lane Pagham Road.j9

Path: C:\Users\Fiona\OneDrive - Highgate Transportation\1600 - Projects\1616 - Summer Lane, Pagham\Cumulative Impact\Modelling

Report generation date: 21/12/2016 23:44:56

» 2022, AM
 » 2022, PM
 » 2022 + CUMULATIVE, AM
 » 2022 + CUMULATIVE, PM
 » 2027, AM
 » 2027, PM
 » 2027 + CUMULATIVE, AM
 » 2027 + CUMULATIVE, PM

Summary of junction performance

	AM								PM							
	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity
	2022															
Stream B-AC	0.3	1.2	9.05	0.21	A	1.86	A	146 %	0.5	2.5	13.03	0.35	B	2.02	A	42 %
Stream C-AB	0.1	0.9	4.83	0.07	A			[Stream B-AC]	0.3	1.2	7.08	0.18	A			[Stream B-AC]
	2022 + CUMULATIVE															
Stream B-AC	0.5	2.3	11.12	0.34	B	2.80	A	66 %	1.2	5.0	20.12	0.54	C	3.60	A	14 %
Stream C-AB	0.6	1.3	5.32	0.26	A			[Stream B-AC]	0.9	3.8	8.40	0.36	A			[Stream B-AC]
	2027															
Stream B-AC	0.3	1.3	9.20	0.21	A	1.89	A	138 %	0.6	2.7	13.62	0.37	B	2.10	A	38 %
Stream C-AB	0.1	0.9	4.82	0.08	A			[Stream B-AC]	0.4	1.3	7.18	0.19	A			[Stream B-AC]
	2027 + CUMULATIVE															
Stream B-AC	0.5	2.4	11.37	0.35	B	2.85	A	63 %	1.3	5.6	21.68	0.57	C	3.83	A	11 %
Stream C-AB	0.6	1.4	5.32	0.26	A			[Stream B-AC]	1.0	4.2	8.63	0.38	A			[Stream B-AC]

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. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	19/09/2016
Version	
Status	(new file)
Identifier	
Client	
Job number	
Enumerator	DESKTOP-MD9GBJC\Fiona
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	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15
D2	2022	PM	ONE HOUR	16:45	18:15	15
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D4	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15
D5	2027	AM	ONE HOUR	07:45	09:15	15
D6	2027	PM	ONE HOUR	16:45	18:15	15
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D8	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Nyetimber Lane j/w Pagham Road	T-Junction	Two-way	1.86	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	146	Stream B-AC

Arms

Arms

Arm	Name	Description	Arm type
A	Pagham Road North		Major
B	Nyetimber Lane		Minor
C	Pagham Road South		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	7.30			200.0	✓	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	One lane	4.00	60	45

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	571	0.098	0.248	0.156	0.354
1	B-C	718	0.104	0.262	-	-
1	C-B	690	0.252	0.252	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	173	100.000
B		✓	94	100.000
C		✓	312	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	30	143
	B	62	0	32
	C	277	35	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	7	8
	B	2	0	6
	C	5	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.21	9.05	0.3	1.2	A
C-AB	0.07	4.83	0.1	0.9	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	71	531	0.133	70	0.2	7.796	A
C-AB	36	783	0.046	36	0.1	4.814	A
C-A	199			199			
A-B	23			23			
A-C	108			108			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	85	519	0.163	84	0.2	8.288	A
C-AB	46	802	0.057	46	0.1	4.754	A
C-A	235			235			
A-B	27			27			
A-C	129			129			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	103	501	0.207	103	0.3	9.043	A
C-AB	61	830	0.074	61	0.1	4.680	A
C-A	282			282			
A-B	33			33			
A-C	157			157			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	103	501	0.207	103	0.3	9.055	A
C-AB	61	830	0.074	61	0.1	4.687	A

C-A	282			282			
A-B	33			33			
A-C	157			157			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	85	519	0.163	85	0.2	8.303	A
C-AB	46	802	0.057	46	0.1	4.768	A
C-A	235			235			
A-B	27			27			
A-C	129			129			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	71	531	0.133	71	0.2	7.824	A
C-AB	36	783	0.046	36	0.1	4.827	A
C-A	199			199			
A-B	23			23			
A-C	108			108			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.15	0.00	0.00	0.15	0.15			N/A	N/A
C-AB	0.07	0.00	0.00	0.07	0.07			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.19	0.00	0.00	0.19	0.19			N/A	N/A
C-AB	0.09	0.03	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.26	0.03	0.26	0.46	0.49			N/A	N/A
C-AB	0.13	0.03	0.27	0.48	0.88			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.26	0.03	0.30	0.89	1.23			N/A	N/A
C-AB	0.13	0.00	0.00	0.13	0.13			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.20	0.00	0.00	0.20	0.20			N/A	N/A
C-AB	0.09	0.00	0.00	0.09	0.09			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.16	0.00	0.00	0.16	0.16			N/A	N/A
C-AB	0.07	0.00	0.00	0.07	0.07			N/A	N/A

2022, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Nyetimber Lane j/w Pagham Road	T-Junction	Two-way	2.02	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	42	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022	PM	ONE HOUR	18:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	806	100.000
B		✓	137	100.000
C		✓	267	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		A	B	C	
	A	0	106	700	
	B	34	0	103	
	C	200	67	0	

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		A	B	C	
	A	0	0	2	
	B	0	0	1	
	C	4	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.35	13.03	0.5	2.5	E
C-AB	0.18	7.08	0.3	1.2	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	103	506	0.204	102	0.3	8.891	A
C-AB	66	638	0.103	65	0.2	6.280	A
C-A	135			135			
A-B	80			80			
A-C	527			527			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	123	473	0.260	123	0.3	10.260	B
C-AB	84	631	0.134	84	0.2	6.578	A
C-A	156			156			
A-B	95			95			
A-C	629			629			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	151	427	0.353	150	0.5	12.956	B
C-AB	114	624	0.183	114	0.3	7.057	A
C-A	180			180			
A-B	117			117			
A-C	771			771			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	151	427	0.353	151	0.5	13.027	B
C-AB	115	624	0.184	115	0.3	7.079	A
C-A	179			179			
A-B	117			117			
A-C	771			771			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	123	473	0.260	124	0.4	10.330	B
C-AB	85	632	0.134	85	0.2	6.608	A
C-A	155			155			
A-B	95			95			
A-C	629			629			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	103	506	0.204	104	0.3	8.957	A
C-AB	66	638	0.104	66	0.2	6.310	A
C-A	135			135			
A-B	80			80			
A-C	527			527			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.25	0.00	0.00	0.25	0.25			N/A	N/A
C-AB	0.16	0.00	0.00	0.16	0.16			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker

B-AC	0.35	0.00	0.00	0.35	0.35			N/A	N/A
C-AB	0.22	0.00	0.00	0.22	0.22			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.53	0.03	0.26	0.53	0.53			N/A	N/A
C-AB	0.33	0.03	0.26	0.47	0.50			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.54	0.03	0.30	1.41	2.50			N/A	N/A
C-AB	0.34	0.03	0.30	0.87	1.19			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.36	0.00	0.00	0.36	0.36			N/A	N/A
C-AB	0.22	0.00	0.00	0.22	0.22			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.26	0.00	0.00	0.26	0.26			N/A	N/A
C-AB	0.16	0.00	0.00	0.16	0.16			N/A	N/A

2022 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Nyetimber Lane j/w Pagham Road	T-Junction	Two-way	2.80	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	66	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	264	100.000
B		✓	149	100.000
C		✓	526	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	33	231
	B	65	0	84
	C	422	104	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	6	5
	B	2	0	2
	C	4	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.34	11.12	0.5	2.3	E
C-AB	0.26	5.32	0.6	1.3	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	112	536	0.209	111	0.3	8.445	A
C-AB	126	838	0.151	125	0.3	5.047	A
C-A	270			270			
A-B	25			25			
A-C	174			174			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	134	516	0.259	134	0.3	9.398	A
C-AB	167	869	0.192	166	0.4	5.121	A
C-A	306			306			
A-B	30			30			
A-C	208			208			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	164	488	0.336	163	0.5	11.076	B
C-AB	234	913	0.256	233	0.6	5.294	A
C-A	345			345			
A-B	36			36			
A-C	254			254			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	164	488	0.336	164	0.5	11.120	B
C-AB	234	914	0.257	234	0.6	5.317	A
C-A	345			345			
A-B	36			36			
A-C	254			254			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	134	516	0.260	135	0.4	9.451	A
C-AB	167	869	0.192	168	0.4	5.153	A
C-A	306			306			
A-B	30			30			
A-C	208			208			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	112	536	0.209	113	0.3	8.506	A
C-AB	127	838	0.151	127	0.3	5.080	A
C-A	269			269			
A-B	25			25			
A-C	174			174			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.26	0.00	0.00	0.26	0.26			N/A	N/A
C-AB	0.27	0.00	0.00	0.27	0.27			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.35	0.00	0.00	0.35	0.35			N/A	N/A
C-AB	0.38	0.00	0.00	0.38	0.38			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.50	0.03	0.26	0.50	0.50			N/A	N/A
C-AB	0.58	0.03	0.26	0.58	0.58			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.50	0.03	0.30	1.36	2.28			N/A	N/A
C-AB	0.59	0.05	0.45	1.27	1.27			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.36	0.00	0.00	0.36	0.36			N/A	N/A
C-AB	0.39	0.00	0.00	0.39	0.39			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.27	0.00	0.00	0.27	0.27			N/A	N/A
C-AB	0.28	0.00	0.00	0.28	0.28			N/A	N/A

2022 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Nyetimber Lane j/w Pagham Road	T-Junction	Two-way	3.60	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	14	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	929	100.000
B		✓	194	100.000
C		✓	411	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A	B	C	
From	A	0	107	822	
	B	34	0	160	
	C	297	114	0	

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	
From	A	0	0	2	
	B	0	0	1	
	C	2	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.54	20.12	1.2	5.0	C
C-AB	0.36	8.40	0.9	3.8	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	146	489	0.299	144	0.4	10.409	B
C-AB	129	669	0.193	128	0.3	6.640	A
C-A	181			181			
A-B	81			81			
A-C	619			619			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	174	449	0.388	174	0.6	13.026	B
C-AB	171	671	0.255	170	0.5	7.194	A
C-A	199			199			
A-B	96			96			
A-C	739			739			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	214	392	0.544	212	1.1	19.678	C
C-AB	245	676	0.362	243	0.9	8.333	A
C-A	208			208			
A-B	118			118			
A-C	905			905			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	214	392	0.545	213	1.2	20.116	C
C-AB	245	676	0.363	245	0.9	8.401	A
C-A	207			207			
A-B	118			118			
A-C	905			905			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	174	449	0.389	176	0.6	13.314	B
C-AB	172	672	0.255	173	0.5	7.270	A
C-A	198			198			
A-B	96			96			
A-C	739			739			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	146	488	0.299	147	0.4	10.570	B
C-AB	130	670	0.193	130	0.4	6.696	A
C-A	180			180			
A-B	81			81			
A-C	619			619			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.42	0.00	0.00	0.42	0.42			N/A	N/A
C-AB	0.34	0.00	0.00	0.34	0.34			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker

B-AC	0.62	0.13	0.88	1.38	1.44			N/A	N/A
C-AB	0.51	0.51	1.00	1.40	1.45			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.14	0.03	0.28	1.14	2.98			N/A	N/A
C-AB	0.90	0.03	0.26	0.90	0.90			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.17	0.03	0.29	1.41	5.00			N/A	N/A
C-AB	0.91	0.04	0.39	2.21	3.77			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.65	0.06	0.60	1.08	1.08			N/A	N/A
C-AB	0.53	0.53	1.00	1.40	1.45			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.43	0.04	0.37	1.24	1.41			N/A	N/A
C-AB	0.35	0.00	0.00	0.35	0.35			N/A	N/A

2027, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Nyetimber Lane j/w Pagham Road	T-Junction	Two-way	1.89	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	138	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2027	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	178	100.000
B		✓	97	100.000
C		✓	321	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	31	147
	B	64	0	33
	C	285	36	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	6	8
	B	2	0	6
	C	5	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.21	9.20	0.3	1.3	A
C-AB	0.08	4.82	0.1	0.9	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	73	529	0.138	72	0.2	7.864	A
C-AB	37	786	0.047	37	0.1	4.804	A
C-A	204			204			
A-B	23			23			
A-C	111			111			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	87	516	0.169	87	0.2	8.380	A
C-AB	48	806	0.059	47	0.1	4.741	A
C-A	241			241			
A-B	28			28			
A-C	132			132			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	107	498	0.214	107	0.3	9.182	A
C-AB	64	834	0.076	64	0.1	4.668	A
C-A	290			290			
A-B	34			34			
A-C	162			162			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	107	498	0.214	107	0.3	9.195	A
C-AB	64	834	0.076	64	0.1	4.676	A
C-A	290			290			
A-B	34			34			
A-C	162			162			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	87	516	0.169	87	0.2	8.399	A
C-AB	48	806	0.059	48	0.1	4.760	A
C-A	241			241			
A-B	28			28			
A-C	132			132			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	73	529	0.138	73	0.2	7.895	A
C-AB	37	786	0.048	37	0.1	4.817	A
C-A	204			204			
A-B	23			23			
A-C	111			111			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.16	0.00	0.00	0.16	0.16			N/A	N/A
C-AB	0.07	0.00	0.00	0.07	0.07			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.20	0.00	0.00	0.20	0.20			N/A	N/A
C-AB	0.09	0.03	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.27	0.03	0.26	0.46	0.49			N/A	N/A
C-AB	0.14	0.03	0.27	0.49	0.92			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.27	0.03	0.30	0.96	1.27			N/A	N/A
C-AB	0.14	0.00	0.00	0.14	0.14			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.21	0.00	0.00	0.21	0.21			N/A	N/A
C-AB	0.10	0.00	0.00	0.10	0.10			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.16	0.00	0.00	0.16	0.16			N/A	N/A
C-AB	0.07	0.00	0.00	0.07	0.07			N/A	N/A

2027, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Nyetimber Lane j/w Pagham Road	T-Junction	Two-way	2.10	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	38	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2027	PM	ONE HOUR	18:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	830	100.000
B		✓	141	100.000
C		✓	274	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		A	B	C	
	A	0	109	721	
	B	35	0	106	
	C	205	69	0	

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		A	B	C	
	A	0	0	2	
	B	0	0	1	
	C	4	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.37	13.62	0.6	2.7	E
C-AB	0.19	7.18	0.4	1.3	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	106	501	0.212	105	0.3	9.067	A
C-AB	69	637	0.108	68	0.2	6.326	A
C-A	138			138			
A-B	82			82			
A-C	543			543			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	127	467	0.271	126	0.4	10.548	B
C-AB	88	630	0.140	88	0.2	6.637	A
C-A	158			158			
A-B	98			98			
A-C	648			648			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	155	420	0.370	154	0.6	13.531	B
C-AB	120	622	0.192	119	0.4	7.157	A
C-A	182			182			
A-B	120			120			
A-C	794			794			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	155	420	0.370	155	0.6	13.618	B
C-AB	120	622	0.193	120	0.4	7.160	A
C-A	182			182			
A-B	120			120			
A-C	794			794			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	127	467	0.271	128	0.4	10.626	B
C-AB	88	630	0.140	89	0.2	6.674	A
C-A	158			158			
A-B	98			98			
A-C	648			648			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	106	501	0.212	107	0.3	9.138	A
C-AB	69	637	0.108	69	0.2	6.358	A
C-A	137			137			
A-B	82			82			
A-C	543			543			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.27	0.00	0.00	0.27	0.27			N/A	N/A
C-AB	0.16	0.00	0.00	0.16	0.16			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.37	0.00	0.00	0.37	0.37			N/A	N/A
C-AB	0.23	0.00	0.00	0.23	0.23			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.57	0.03	0.26	0.57	0.57			N/A	N/A
C-AB	0.36	0.03	0.26	0.47	0.50			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.58	0.03	0.30	1.42	2.74			N/A	N/A
C-AB	0.36	0.03	0.32	1.03	1.27			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.38	0.00	0.00	0.38	0.38			N/A	N/A
C-AB	0.24	0.00	0.00	0.24	0.24			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.27	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	0.17	0.00	0.00	0.17	0.17			N/A	N/A

2027 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Nyetimber Lane j/w Pagham Road	T-Junction	Two-way	2.85	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	63	Stream B-AC

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)
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	269	100.000
B		✓	152	100.000
C		✓	535	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	34	235
	B	67	0	85
	C	430	105	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	6	5
	B	2	0	2
	C	4	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.35	11.37	0.5	2.4	E
C-AB	0.26	5.32	0.6	1.4	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	114	534	0.214	113	0.3	8.544	A
C-AB	129	841	0.153	127	0.3	5.043	A
C-A	274			274			
A-B	26			26			
A-C	177			177			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	137	513	0.266	136	0.4	9.545	A
C-AB	170	873	0.195	170	0.4	5.120	A
C-A	311			311			
A-B	31			31			
A-C	211			211			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	167	484	0.346	167	0.5	11.321	B
C-AB	240	918	0.261	239	0.6	5.304	A
C-A	349			349			
A-B	37			37			
A-C	259			259			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	167	484	0.346	167	0.5	11.370	B
C-AB	240	918	0.262	240	0.6	5.323	A
C-A	349			349			
A-B	37			37			
A-C	259			259			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	137	513	0.266	137	0.4	9.598	A
C-AB	170	873	0.195	171	0.4	5.155	A
C-A	310			310			
A-B	31			31			
A-C	211			211			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	114	533	0.215	115	0.3	8.608	A
C-AB	129	841	0.153	130	0.3	5.077	A
C-A	274			274			
A-B	26			26			
A-C	177			177			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.27	0.00	0.00	0.27	0.27			N/A	N/A
C-AB	0.28	0.00	0.00	0.28	0.28			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.36	0.00	0.00	0.36	0.36			N/A	N/A
C-AB	0.39	0.00	0.00	0.39	0.39			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.52	0.03	0.26	0.52	0.52			N/A	N/A
C-AB	0.60	0.03	0.26	0.60	0.60			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.52	0.03	0.30	1.36	2.43			N/A	N/A
C-AB	0.60	0.05	0.46	1.40	1.40			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.37	0.00	0.00	0.37	0.37			N/A	N/A
C-AB	0.40	0.00	0.00	0.40	0.40			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.28	0.00	0.00	0.28	0.28			N/A	N/A
C-AB	0.29	0.00	0.00	0.29	0.29			N/A	N/A

2027 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Nyetimber Lane j/w Pagham Road	T-Junction	Two-way	3.83	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	11	Stream B-AC

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)
D8	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	953	100.000
B		✓	198	100.000
C		✓	418	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A	B	C	
From	A	0	110	843	
	B	35	0	163	
	C	302	116	0	

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	
From	A	0	0	2	
	B	0	0	1	
	C	3	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.57	21.68	1.3	5.6	C
C-AB	0.38	8.63	1.0	4.2	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	149	483	0.309	147	0.4	10.665	B
C-AB	132	667	0.199	131	0.4	6.707	A
C-A	182			182			
A-B	83			83			
A-C	635			635			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	178	442	0.402	177	0.7	13.521	B
C-AB	176	669	0.264	176	0.5	7.300	A
C-A	200			200			
A-B	99			99			
A-C	758			758			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	218	384	0.568	216	1.2	21.112	C
C-AB	254	674	0.377	252	1.0	8.548	A
C-A	206			206			
A-B	121			121			
A-C	928			928			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	218	384	0.568	218	1.3	21.682	C
C-AB	255	674	0.377	254	1.0	8.631	A
C-A	206			206			
A-B	121			121			
A-C	928			928			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	178	442	0.403	180	0.7	13.870	B
C-AB	177	670	0.264	179	0.6	7.393	A
C-A	199			199			
A-B	99			99			
A-C	758			758			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	149	483	0.309	150	0.5	10.845	B
C-AB	133	668	0.199	134	0.4	6.772	A
C-A	182			182			
A-B	83			83			
A-C	635			635			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.44	0.00	0.00	0.44	0.44			N/A	N/A
C-AB	0.36	0.00	0.00	0.36	0.36			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker

B-AC	0.66	0.13	0.88	1.38	1.44			N/A	N/A
C-AB	0.54	0.54	1.00	1.40	1.45			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.25	0.03	0.28	1.25	4.20			N/A	N/A
C-AB	0.97	0.03	0.26	0.97	0.97			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.28	0.03	0.29	1.28	5.57			N/A	N/A
C-AB	0.98	0.04	0.38	2.45	4.21			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.69	0.05	0.59	1.47	1.49			N/A	N/A
C-AB	0.56	0.55	1.00	1.40	1.45			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.45	0.04	0.37	1.30	1.47			N/A	N/A
C-AB	0.37	0.00	0.00	0.37	0.37			N/A	N/A

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 [J]
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Filename: 1616 Hook Lane Pagham Road.j9

Path: C:\Users\Fiona\OneDrive - Highgate Transportation\1600 - Projects\1616 - Summer Lane, Pagham\Cumulative Impact\Modelling

Report generation date: 21/12/2016 23:45:46

» 2022, AM
» 2022, PM
» 2022 + CUMULATIVE, AM
» 2022 + CUMULATIVE, PM
» 2027, AM
» 2027, PM
» 2027 + CUMULATIVE, AM
» 2027 + CUMULATIVE, PM

Summary of junction performance

	AM								PM							
	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity
	2022															
Stream B-AC	0.7	2.9	11.44	0.41	B	4.89	A	66 %	0.8	3.0	11.05	0.44	B	4.39	A	59 %
Stream C-AB	0.5	1.6	5.98	0.27	A			[Stream B-AC]	0.4	1.2	7.42	0.26	A			[Stream B-AC]
	2022 + CUMULATIVE															
Stream B-AC	1.1	3.7	14.81	0.53	B	6.58	A	33 %	1.3	3.9	14.93	0.58	B	6.00	A	30 %
Stream C-AB	1.2	5.8	7.52	0.45	A			[Stream B-AC]	0.8	3.8	8.76	0.39	A			[Stream B-AC]
	2027															
Stream B-AC	0.7	3.0	11.84	0.42	B	5.02	A	60 %	0.8	3.1	11.38	0.46	B	4.51	A	56 %
Stream C-AB	0.5	1.8	6.04	0.28	A			[Stream B-AC]	0.4	1.5	7.53	0.27	A			[Stream B-AC]
	2027 + CUMULATIVE															
Stream B-AC	1.2	3.9	15.49	0.55	C	6.84	A	30 %	1.4	4.2	15.54	0.59	C	6.21	A	28 %
Stream C-AB	1.2	6.0	7.66	0.46	A			[Stream B-AC]	0.8	4.0	8.94	0.40	A			[Stream B-AC]

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. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	19/09/2016
Version	
Status	(new file)
Identifier	
Client	
Job number	
Enumerator	DESKTOP-MD9GBJC\Fiona
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	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15
D2	2022	PM	ONE HOUR	16:45	18:15	15
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D4	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15
D5	2027	AM	ONE HOUR	07:45	09:15	15
D6	2027	PM	ONE HOUR	16:45	18:15	15
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D8	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Hook Lane j/w Pagham Road	T-Junction	Two-way	4.89	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	66	Stream B-AC

Arms

Arms

Arm	Name	Description	Arm type
A	Pagham Road North		Major
B	Hook Lane		Minor
C	Pagham Road South		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	6.00			200.0	✓	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	One lane	4.00	60	50

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	574	0.105	0.264	0.166	0.378
1	B-C	721	0.111	0.279	-	-
1	C-B	690	0.267	0.267	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	98	100.000
B		✓	197	100.000
C		✓	397	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	12	86
	B	94	0	103
	C	264	133	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	8
	B	0	0	5
	C	3	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.41	11.44	0.7	2.9	B
C-AB	0.27	5.98	0.5	1.6	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	148	564	0.263	147	0.4	8.605	A
C-AB	134	780	0.172	133	0.3	5.564	A
C-A	165			165			
A-B	9			9			
A-C	65			65			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	177	550	0.322	177	0.5	9.621	A
C-AB	170	801	0.213	170	0.4	5.709	A
C-A	187			187			
A-B	11			11			
A-C	77			77			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	217	532	0.408	216	0.7	11.380	B
C-AB	226	829	0.273	225	0.5	5.963	A
C-A	211			211			
A-B	13			13			
A-C	95			95			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	217	531	0.408	217	0.7	11.443	B
C-AB	226	830	0.273	226	0.5	5.975	A

C-A	211			211			
A-B	13			13			
A-C	95			95			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	177	550	0.322	178	0.5	9.690	A
C-AB	171	801	0.213	171	0.4	5.730	A
C-A	186			186			
A-B	11			11			
A-C	77			77			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	148	564	0.263	149	0.4	8.691	A
C-AB	135	780	0.173	135	0.3	5.592	A
C-A	164			164			
A-B	9			9			
A-C	65			65			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.35	0.00	0.00	0.35	0.35			N/A	N/A
C-AB	0.27	0.00	0.00	0.27	0.27			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.47	0.00	0.00	0.47	0.47			N/A	N/A
C-AB	0.36	0.00	0.00	0.36	0.36			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.68	0.03	0.26	0.68	0.68			N/A	N/A
C-AB	0.51	0.03	0.26	0.51	0.51			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.68	0.03	0.29	1.12	2.91			N/A	N/A
C-AB	0.51	0.04	0.37	1.45	1.62			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.48	0.04	0.42	1.25	1.38			N/A	N/A
C-AB	0.37	0.00	0.00	0.37	0.37			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.36	0.03	0.27	0.49	0.84			N/A	N/A
C-AB	0.28	0.00	0.00	0.28	0.28			N/A	N/A

2022, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Hook Lane j/w Pagham Road	T-Junction	Two-way	4.39	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	59	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022	PM	ONE HOUR	18:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	359	100.000
B		✓	237	100.000
C		✓	238	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	37	322
	B	16	0	221
	C	115	123	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	0	4
	B	0	0	1
	C	5	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.44	11.05	0.8	3.0	E
C-AB	0.26	7.42	0.4	1.2	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	178	624	0.286	177	0.4	8.028	A
C-AB	107	659	0.162	106	0.2	6.498	A
C-A	73			73			
A-B	28			28			
A-C	242			242			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	213	608	0.350	213	0.5	9.085	A
C-AB	131	657	0.200	131	0.3	6.847	A
C-A	83			83			
A-B	33			33			
A-C	289			289			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	261	587	0.445	260	0.8	10.986	B
C-AB	168	654	0.257	168	0.4	7.404	A
C-A	94			94			
A-B	41			41			
A-C	355			355			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	261	587	0.445	261	0.8	11.050	B
C-AB	168	654	0.257	168	0.4	7.424	A
C-A	94			94			
A-B	41			41			
A-C	355			355			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	213	608	0.350	214	0.5	9.158	A
C-AB	131	657	0.200	132	0.3	6.877	A
C-A	82			82			
A-B	33			33			
A-C	289			289			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	178	624	0.286	179	0.4	8.107	A
C-AB	107	659	0.162	107	0.2	6.529	A
C-A	72			72			
A-B	28			28			
A-C	242			242			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.40	0.00	0.00	0.40	0.40			N/A	N/A
C-AB	0.22	0.00	0.00	0.22	0.22			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.53	0.53	1.00	1.40	1.45			N/A	N/A
C-AB	0.29	0.00	0.00	0.29	0.29			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.78	0.03	0.26	0.78	0.78			N/A	N/A
C-AB	0.41	0.03	0.26	0.46	0.49			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.79	0.03	0.28	0.89	3.03			N/A	N/A
C-AB	0.41	0.03	0.34	1.22	1.22			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.55	0.06	0.65	1.33	1.42			N/A	N/A
C-AB	0.30	0.00	0.00	0.30	0.30			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.41	0.03	0.32	1.05	1.27			N/A	N/A
C-AB	0.22	0.00	0.00	0.22	0.22			N/A	N/A

2022 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Hook Lane j/w Pagham Road	T-Junction	Two-way	6.58	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	33	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	139	100.000
B		✓	249	100.000
C		✓	545	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	12	127
	B	94	0	155
	C	339	206	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	0	6
	B	0	0	3
	C	3	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.53	14.81	1.1	3.7	E
C-AB	0.45	7.52	1.2	5.8	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	187	562	0.333	185	0.5	9.504	A
C-AB	226	813	0.278	224	0.5	6.095	A
C-A	184			184			
A-B	9			9			
A-C	96			96			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	224	544	0.412	223	0.7	11.194	B
C-AB	292	840	0.347	291	0.7	6.555	A
C-A	198			198			
A-B	11			11			
A-C	114			114			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	274	517	0.530	273	1.1	14.607	B
C-AB	396	877	0.452	395	1.1	7.465	A
C-A	204			204			
A-B	13			13			
A-C	140			140			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	274	517	0.530	274	1.1	14.809	B
C-AB	397	878	0.452	397	1.2	7.523	A
C-A	203			203			
A-B	13			13			
A-C	140			140			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	224	543	0.412	225	0.7	11.379	B
C-AB	292	841	0.348	294	0.7	6.628	A
C-A	198			198			
A-B	11			11			
A-C	114			114			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	187	562	0.334	188	0.5	9.660	A
C-AB	227	814	0.279	228	0.5	6.163	A
C-A	183			183			
A-B	9			9			
A-C	96			96			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.49	0.00	0.00	0.49	0.49			N/A	N/A
C-AB	0.51	0.51	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.69	0.20	0.93	1.39	1.44			N/A	N/A
C-AB	0.71	0.55	1.00	1.40	1.45			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.09	0.03	0.27	1.09	1.45			N/A	N/A
C-AB	1.14	0.03	0.26	1.14	1.14			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.11	0.03	0.28	1.11	3.74			N/A	N/A
C-AB	1.15	0.03	0.31	1.87	5.79			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.71	0.07	0.74	1.06	1.06			N/A	N/A
C-AB	0.74	0.55	1.00	1.40	1.45			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.51	0.04	0.43	1.30	1.42			N/A	N/A
C-AB	0.52	0.06	0.62	1.32	1.41			N/A	N/A

2022 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Hook Lane j/w Pagham Road	T-Junction	Two-way	6.00	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	30	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	425	100.000
B		✓	296	100.000
C		✓	334	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	37	388
	B	16	0	280
	C	181	173	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	3
	B	0	0	1
	C	4	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.58	14.93	1.3	3.9	E
C-AB	0.39	8.76	0.8	3.8	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	223	611	0.365	221	0.6	9.163	A
C-AB	159	670	0.237	158	0.4	7.011	A
C-A	92			92			
A-B	28			28			
A-C	292			292			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	266	593	0.449	265	0.8	10.957	B
C-AB	199	670	0.296	198	0.5	7.622	A
C-A	102			102			
A-B	33			33			
A-C	349			349			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	326	567	0.575	324	1.3	14.695	B
C-AB	259	671	0.386	258	0.8	8.709	A
C-A	108			108			
A-B	41			41			
A-C	427			427			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	326	567	0.575	326	1.3	14.928	B
C-AB	260	672	0.387	260	0.8	8.759	A
C-A	108			108			
A-B	41			41			
A-C	427			427			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	266	593	0.449	268	0.8	11.156	B
C-AB	199	671	0.297	200	0.5	7.683	A
C-A	101			101			
A-B	33			33			
A-C	349			349			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	223	611	0.365	224	0.6	9.315	A
C-AB	159	670	0.238	160	0.4	7.073	A
C-A	92			92			
A-B	28			28			
A-C	292			292			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.56	0.55	1.00	1.40	1.45			N/A	N/A
C-AB	0.36	0.00	0.00	0.36	0.36			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.80	0.17	0.92	1.41	1.47			N/A	N/A
C-AB	0.50	0.00	0.00	0.50	0.50			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.31	0.03	0.27	1.31	2.94			N/A	N/A
C-AB	0.76	0.03	0.26	0.76	0.76			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.33	0.03	0.28	1.33	3.90			N/A	N/A
C-AB	0.77	0.03	0.31	1.47	3.77			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.83	0.07	0.78	1.30	1.75			N/A	N/A
C-AB	0.52	0.52	1.00	1.40	1.45			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.58	0.04	0.45	1.29	1.29			N/A	N/A
C-AB	0.37	0.00	0.00	0.37	0.37			N/A	N/A

2027, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Hook Lane j/w Pagham Road	T-Junction	Two-way	5.02	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	60	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2027	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	101	100.000
B		✓	203	100.000
C		✓	409	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	12	89
	B	97	0	106
	C	272	137	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	0	9
	B	0	0	5
	C	4	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.42	11.84	0.7	3.0	E
C-AB	0.28	8.04	0.5	1.8	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	153	561	0.272	151	0.4	8.753	A
C-AB	140	782	0.179	139	0.3	5.590	A
C-A	168			168			
A-B	9			9			
A-C	67			67			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	182	547	0.334	182	0.5	9.844	A
C-AB	177	803	0.221	177	0.4	5.748	A
C-A	190			190			
A-B	11			11			
A-C	80			80			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	224	528	0.424	223	0.7	11.789	B
C-AB	236	833	0.284	236	0.5	6.027	A
C-A	214			214			
A-B	13			13			
A-C	98			98			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	224	527	0.424	223	0.7	11.841	B
C-AB	236	833	0.284	236	0.5	6.043	A
C-A	214			214			
A-B	13			13			
A-C	98			98			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	182	547	0.334	183	0.5	9.924	A
C-AB	178	804	0.221	178	0.4	5.774	A
C-A	190			190			
A-B	11			11			
A-C	80			80			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	153	561	0.272	153	0.4	8.844	A
C-AB	140	782	0.179	141	0.3	5.622	A
C-A	168			168			
A-B	9			9			
A-C	67			67			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.37	0.00	0.00	0.37	0.37			N/A	N/A
C-AB	0.28	0.00	0.00	0.28	0.28			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.49	0.00	0.00	0.49	0.49			N/A	N/A
C-AB	0.38	0.00	0.00	0.38	0.38			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.72	0.03	0.26	0.72	0.72			N/A	N/A
C-AB	0.54	0.03	0.26	0.54	0.54			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.73	0.03	0.29	1.06	3.00			N/A	N/A
C-AB	0.55	0.04	0.37	1.03	1.81			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.51	0.05	0.49	1.30	1.40			N/A	N/A
C-AB	0.39	0.00	0.00	0.39	0.39			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.38	0.03	0.29	0.79	1.15			N/A	N/A
C-AB	0.29	0.00	0.00	0.29	0.29			N/A	N/A

2027, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Hook Lane j/w Pagham Road	T-Junction	Two-way	4.51	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	56	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2027	PM	ONE HOUR	18:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	369	100.000
B		✓	243	100.000
C		✓	245	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	38	331
	B	16	0	227
	C	118	127	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	0	4
	B	0	0	1
	C	5	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.46	11.38	0.8	3.1	E
C-AB	0.27	7.53	0.4	1.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	183	622	0.294	181	0.4	8.141	A
C-AB	111	659	0.168	110	0.2	6.550	A
C-A	74			74			
A-B	29			29			
A-C	249			249			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	218	606	0.361	218	0.6	9.262	A
C-AB	136	656	0.208	136	0.3	6.919	A
C-A	84			84			
A-B	34			34			
A-C	298			298			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	268	584	0.458	266	0.8	11.307	B
C-AB	175	653	0.268	174	0.4	7.514	A
C-A	95			95			
A-B	42			42			
A-C	364			364			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	268	584	0.458	268	0.8	11.381	B
C-AB	175	653	0.268	175	0.4	7.533	A
C-A	95			95			
A-B	42			42			
A-C	364			364			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	218	606	0.361	220	0.6	9.343	A
C-AB	136	656	0.208	137	0.3	6.951	A
C-A	84			84			
A-B	34			34			
A-C	298			298			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	183	622	0.294	184	0.4	8.226	A
C-AB	111	659	0.168	111	0.2	6.585	A
C-A	74			74			
A-B	29			29			
A-C	249			249			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.41	0.00	0.00	0.41	0.41			N/A	N/A
C-AB	0.23	0.00	0.00	0.23	0.23			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.56	0.55	1.00	1.40	1.45			N/A	N/A
C-AB	0.30	0.00	0.00	0.30	0.30			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.83	0.03	0.26	0.83	0.83			N/A	N/A
C-AB	0.43	0.03	0.26	0.46	0.49			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.84	0.03	0.28	0.84	3.08			N/A	N/A
C-AB	0.43	0.03	0.34	1.35	1.45			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.57	0.07	0.70	1.34	1.42			N/A	N/A
C-AB	0.31	0.00	0.00	0.31	0.31			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.42	0.03	0.35	1.14	1.32			N/A	N/A
C-AB	0.23	0.00	0.00	0.23	0.23			N/A	N/A

2027 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Hook Lane j/w Pagham Road	T-Junction	Two-way	6.84	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	30	Stream B-AC

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)
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	142	100.000
B		✓	255	100.000
C		✓	557	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	12	130
	B	97	0	158
	C	347	210	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	0	6
	B	0	0	3
	C	3	1	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.55	15.49	1.2	3.9	C
C-AB	0.48	7.66	1.2	6.0	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	192	560	0.343	190	0.5	9.684	A
C-AB	232	817	0.285	230	0.5	6.129	A
C-A	187			187			
A-B	9			9			
A-C	98			98			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	229	541	0.424	228	0.7	11.501	B
C-AB	300	844	0.356	300	0.7	6.613	A
C-A	200			200			
A-B	11			11			
A-C	117			117			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	281	513	0.547	279	1.2	15.249	C
C-AB	410	882	0.464	408	1.2	7.593	A
C-A	204			204			
A-B	13			13			
A-C	143			143			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	281	513	0.547	281	1.2	15.488	C
C-AB	410	883	0.465	410	1.2	7.662	A
C-A	203			203			
A-B	13			13			
A-C	143			143			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	229	540	0.424	231	0.8	11.710	B
C-AB	301	845	0.357	303	0.8	6.691	A
C-A	199			199			
A-B	11			11			
A-C	117			117			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	192	559	0.343	193	0.5	9.853	A
C-AB	233	817	0.286	234	0.5	6.202	A
C-A	186			186			
A-B	9			9			
A-C	98			98			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.51	0.51	1.00	1.40	1.45			N/A	N/A
C-AB	0.52	0.52	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.72	0.19	0.93	1.39	1.44			N/A	N/A
C-AB	0.75	0.55	1.00	1.40	1.45			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.17	0.03	0.27	1.17	2.12			N/A	N/A
C-AB	1.20	0.03	0.26	1.20	1.20			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.19	0.03	0.28	1.19	3.93			N/A	N/A
C-AB	1.22	0.03	0.30	1.86	6.04			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.75	0.07	0.75	1.44	1.44			N/A	N/A
C-AB	0.78	0.55	1.00	1.40	1.45			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.53	0.04	0.43	1.33	1.46			N/A	N/A
C-AB	0.54	0.07	0.70	1.34	1.42			N/A	N/A

2027 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Hook Lane j/w Pagham Road	T-Junction	Two-way	6.21	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	28	Stream B-AC

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)
D8	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	435	100.000
B		✓	302	100.000
C		✓	341	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	38	397
	B	16	0	286
	C	164	177	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	0	3
	B	0	0	1
	C	4	2	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.59	15.54	1.4	4.2	C
C-AB	0.40	8.94	0.8	4.0	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	227	609	0.373	225	0.6	9.308	A
C-AB	163	670	0.244	162	0.4	7.077	A
C-A	93			93			
A-B	29			29			
A-C	299			299			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	271	590	0.460	271	0.8	11.215	B
C-AB	204	670	0.305	204	0.5	7.721	A
C-A	102			102			
A-B	34			34			
A-C	357			357			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	333	564	0.590	330	1.4	15.266	C
C-AB	267	671	0.398	266	0.8	8.885	A
C-A	108			108			
A-B	42			42			
A-C	437			437			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	333	564	0.590	332	1.4	15.540	C
C-AB	268	671	0.399	268	0.8	8.938	A
C-A	108			108			
A-B	42			42			
A-C	437			437			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	271	590	0.460	274	0.9	11.443	B
C-AB	205	670	0.305	206	0.5	7.785	A
C-A	102			102			
A-B	34			34			
A-C	357			357			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	227	609	0.373	228	0.6	9.476	A
C-AB	164	670	0.244	164	0.4	7.139	A
C-A	93			93			
A-B	29			29			
A-C	299			299			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.59	0.55	1.00	1.40	1.45			N/A	N/A
C-AB	0.38	0.00	0.00	0.38	0.38			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.83	0.16	0.93	1.43	1.49			N/A	N/A
C-AB	0.52	0.52	1.00	1.40	1.45			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.38	0.03	0.28	1.38	3.74			N/A	N/A
C-AB	0.80	0.03	0.26	0.80	0.80			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.41	0.03	0.28	1.41	4.17			N/A	N/A
C-AB	0.81	0.03	0.31	1.48	3.98			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.87	0.07	0.78	1.49	1.89			N/A	N/A
C-AB	0.54	0.54	1.00	1.40	1.45			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.60	0.04	0.44	1.46	1.51			N/A	N/A
C-AB	0.39	0.00	0.00	0.39	0.39			N/A	N/A

Junctions 9

PICADY 9 - Priority Intersection Module

Version: 9.0.1.4646 [J]
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Filename: 1616 Sefter Road Pagham Road.j9

Path: C:\Users\Fiona\OneDrive - Highgate Transportation\1600 - Projects\1616 - Summer Lane, Pagham\Cumulative Impact\Modelling

Report generation date: 21/12/2016 23:46:24

»2022, AM
»2022, PM
»2022 + CUMULATIVE, AM
»2022 + CUMULATIVE, PM
»2027, AM
»2027, PM
»2027 + CUMULATIVE, AM
»2027 + CUMULATIVE, PM

Summary of junction performance

	AM								PM							
	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity
	2022															
Stream B-AC	1.7	7.1	22.15	0.63	C	6.96	A	17 %	0.6	2.8	14.97	0.38	B	2.16	A	47 %
Stream C-AB	0.0	200.0	4.44	0.01	A			[Stream B-AC]	0.0	200.4	6.14	0.00	A			[Stream B-AC]
	2022 + CUMULATIVE															
Stream B-AC	7.9	36.1	37.88	0.83	F	21.46	C	-14 %	1.1	4.9	22.71	0.53	C	3.15	A	15 %
Stream C-AB	0.0	0.5	4.38	0.01	A			[Stream B-AC]	0.0	0.5	6.01	0.01	A			[Stream B-AC]
	2027															
Stream B-AC	1.8	8.5	23.89	0.66	C	7.51	A	13 %	0.6	2.9	15.43	0.39	C	2.22	A	43 %
Stream C-AB	0.0	200.0	4.41	0.01	A			[Stream B-AC]	0.0	200.4	6.15	0.00	A			[Stream B-AC]
	2027 + CUMULATIVE															
Stream B-AC	10.0	46.3	107.96	0.86	F	26.27	D	-16 %	1.2	5.2	23.92	0.55	C	3.30	A	12 %
Stream C-AB	0.0	0.5	4.35	0.01	A			[Stream B-AC]	0.0	0.5	6.03	0.01	A			[Stream B-AC]

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. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	19/09/2016
Version	
Status	(new file)
Identifier	
Client	
Job number	
Enumerator	DESKTOP-MD9GBJC\Fiona
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	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15
D2	2022	PM	ONE HOUR	16:45	18:15	15
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D4	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15
D5	2027	AM	ONE HOUR	07:45	09:15	15
D6	2027	PM	ONE HOUR	16:45	18:15	15
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D8	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Pagham Rd j/w Seftor Road	T-Junction	Two-way	6.96	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	17	Stream B-AC

Arms

Arms

Arm	Name	Description	Arm type
A	Pagham Road North		Major
B	Seftor Road		Minor
C	Pagham Road South		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	6.00			200.0	✓	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	One lane	4.00	22	30

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	549	0.100	0.253	0.159	0.361
1	B-C	707	0.108	0.274	-	-
1	C-B	690	0.267	0.267	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	188	100.000
B		✓	251	100.000
C		✓	357	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
	A	B	C	
From	A	0	95	93
	B	247	0	4
	C	353	4	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	A	B	C	
From	A	0	3	7
	B	2	0	25
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.63	22.15	1.7	7.1	C
C-AB	0.01	4.44	0.0	260.3	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	189	470	0.402	188	0.7	12.575	B
C-AB	4	817	0.005	4	0.0	4.430	A
C-A	264			264			
A-B	72			72			
A-C	70			70			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	226	457	0.494	224	0.9	15.419	C
C-AB	6	843	0.007	6	0.0	4.296	A
C-A	315			315			
A-B	85			85			
A-C	84			84			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	276	438	0.631	274	1.6	21.529	C
C-AB	8	880	0.009	8	0.0	4.124	A
C-A	385			385			
A-B	105			105			
A-C	102			102			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	276	438	0.631	276	1.7	22.153	C
C-AB	8	880	0.009	8	0.0	4.128	A

C-A	385			385			
A-B	105			105			
A-C	102			102			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	226	457	0.494	228	1.0	15.929	C
C-AB	6	843	0.007	6	0.0	4.306	A
C-A	315			315			
A-B	85			85			
A-C	84			84			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	189	470	0.402	190	0.7	12.921	B
C-AB	4	817	0.005	4	0.0	4.436	A
C-A	264			264			
A-B	72			72			
A-C	70			70			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.66	0.55	1.00	1.40	1.45			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.95	0.18	0.98	1.11	1.58			N/A	N/A
C-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.61	0.03	0.29	1.61	7.15			N/A	N/A
C-AB	0.01	>199	>199	>199	>199			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.66	0.03	0.29	1.66	6.17			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.01	0.06	0.65	2.01	2.92			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.69	0.04	0.41	1.46	2.15			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2022, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Pagham Rd j/w Sefton Road	T-Junction	Two-way	2.16	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	47	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022	PM	ONE HOUR	18:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	667	100.000
B		✓	132	100.000
C		✓	130	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		A	B	C	
	A	0	320	347	
	B	120	0	12	
	C	128	2	0	

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		A	B	C	
	A	0	1	4	
	B	4	0	0	
	C	5	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.38	14.97	0.6	2.8	E
C-AB	0.00	8.14	0.0	260.4	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	99	435	0.229	98	0.3	10.661	B
C-AB	2	617	0.003	2	0.0	5.846	A
C-A	96			96			
A-B	241			241			
A-C	261			261			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	119	414	0.287	118	0.4	12.148	B
C-AB	2	605	0.004	2	0.0	5.965	A
C-A	115			115			
A-B	288			288			
A-C	312			312			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	145	386	0.377	145	0.6	14.881	B
C-AB	3	589	0.005	3	0.0	6.132	A
C-A	140			140			
A-B	352			352			
A-C	382			382			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	145	386	0.377	145	0.6	14.972	B
C-AB	3	589	0.005	3	0.0	6.141	A
C-A	140			140			
A-B	352			352			
A-C	382			382			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	119	414	0.287	119	0.4	12.243	B
C-AB	2	605	0.004	2	0.0	5.980	A
C-A	115			115			
A-B	288			288			
A-C	312			312			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	99	435	0.229	100	0.3	10.762	B
C-AB	2	617	0.003	2	0.0	5.854	A
C-A	96			96			
A-B	241			241			
A-C	261			261			

Queue Variation Results for each time segment

16:45 - 17:00

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

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker

B-AC	0.39	0.00	0.00	0.39	0.39			N/A	N/A
C-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.59	0.03	0.26	0.59	0.59			N/A	N/A
C-AB	0.01	>199	>199	>199	>199			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.60	0.03	0.30	1.37	2.80			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.41	0.03	0.29	0.83	1.17			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.30	0.03	0.25	0.46	0.48			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2022 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Pagham Rd j/w Sefton Road	T-Junction	Two-way	21.46	C

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-14	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	496	100.000
B		✓	316	100.000
C		✓	487	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	345	151
	B	308	0	8
	C	482	5	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	4
	B	2	0	13
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.93	87.88	7.9	36.1	F
C-AB	0.01	4.38	0.0	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	238	427	0.557	233	1.2	18.123	C
C-AB	7	830	0.008	7	0.0	4.372	A
C-A	360			360			
A-B	260			260			
A-C	114			114			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	284	405	0.701	280	2.1	27.951	C
C-AB	9	862	0.011	9	0.0	4.217	A
C-A	429			429			
A-B	310			310			
A-C	136			136			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	348	375	0.928	331	6.4	54.981	F
C-AB	13	909	0.015	13	0.0	4.015	A
C-A	523			523			
A-B	380			380			
A-C	166			166			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	348	375	0.928	342	7.9	57.875	F
C-AB	13	909	0.015	13	0.0	4.018	A
C-A	523			523			
A-B	380			380			
A-C	166			166			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	284	405	0.701	305	2.6	41.342	E
C-AB	9	862	0.011	9	0.0	4.225	A
C-A	429			429			
A-B	310			310			
A-C	136			136			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	238	427	0.557	243	1.3	20.040	C
C-AB	7	830	0.008	7	0.0	4.377	A
C-A	360			360			
A-B	260			260			
A-C	114			114			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.20	0.56	1.07	1.20	1.57			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	2.14	0.10	1.39	4.71	6.42			N/A	N/A
C-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	6.43	0.11	2.35	17.02	24.52			N/A	N/A
C-AB	0.02	0.02	0.25	0.45	0.48			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	7.92	0.07	1.20	22.84	36.14			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	2.60	0.04	0.40	7.03	13.11			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.31	0.03	0.31	2.22	6.67			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2022 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Pagham Rd j/w Sefton Road	T-Junction	Two-way	3.15	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	15	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	830	100.000
B		✓	164	100.000
C		✓	208	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	371	459
	B	150	0	14
	C	203	5	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	1	3
	B	3	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.53	22.71	1.1	4.9	C
C-AB	0.01	8.01	0.0	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	123	404	0.306	122	0.4	12.677	B
C-AB	5	627	0.008	5	0.0	5.789	A
C-A	152			152			
A-B	279			279			
A-C	346			346			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	147	377	0.391	147	0.6	15.595	C
C-AB	6	618	0.010	6	0.0	5.882	A
C-A	181			181			
A-B	334			334			
A-C	413			413			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	181	339	0.533	179	1.1	22.237	C
C-AB	9	608	0.014	9	0.0	6.005	A
C-A	220			220			
A-B	408			408			
A-C	505			505			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	181	339	0.533	180	1.1	22.711	C
C-AB	9	608	0.014	9	0.0	6.013	A
C-A	220			220			
A-B	408			408			
A-C	505			505			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	147	377	0.391	149	0.7	15.953	C
C-AB	6	618	0.010	6	0.0	5.894	A
C-A	181			181			
A-B	334			334			
A-C	413			413			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	123	404	0.306	124	0.4	12.909	B
C-AB	5	627	0.008	5	0.0	5.797	A
C-A	152			152			
A-B	279			279			
A-C	346			346			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.43	0.00	0.00	0.43	0.43			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.63	0.18	0.92	1.38	1.44			N/A	N/A
C-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.09	0.03	0.28	1.09	3.18			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.11	0.03	0.29	1.44	4.87			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.66	0.05	0.59	1.26	1.26			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.45	0.04	0.38	1.27	1.43			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2027, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Pagham Rd j/w Sefton Road	T-Junction	Two-way	7.51	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	13	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2027	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	194	100.000
B		✓	259	100.000
C		✓	368	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		A	B	C	
	A	0	98	96	
	B	255	0	4	
	C	364	4	0	

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		A	B	C	
	A	0	3	7	
	B	2	0	25	
	C	3	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.66	23.89	1.8	8.5	C
C-AB	0.01	4.41	0.0	260.3	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	195	468	0.417	192	0.7	12.930	B
C-AB	5	821	0.006	4	0.0	4.408	A
C-A	273			273			
A-B	74			74			
A-C	72			72			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	233	454	0.513	232	1.0	16.076	C
C-AB	6	848	0.007	6	0.0	4.271	A
C-A	325			325			
A-B	88			88			
A-C	86			86			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	285	435	0.656	282	1.8	23.078	C
C-AB	8	886	0.009	8	0.0	4.095	A
C-A	397			397			
A-B	108			108			
A-C	106			106			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	285	435	0.656	285	1.8	23.890	C
C-AB	8	886	0.009	8	0.0	4.101	A
C-A	397			397			
A-B	108			108			
A-C	106			106			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	233	454	0.513	236	1.1	16.708	C
C-AB	6	848	0.007	6	0.0	4.280	A
C-A	325			325			
A-B	88			88			
A-C	86			86			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	195	468	0.417	196	0.7	13.327	B
C-AB	5	821	0.006	5	0.0	4.414	A
C-A	273			273			
A-B	74			74			
A-C	72			72			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.70	0.55	1.00	1.40	1.45			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	1.02	0.16	1.01	1.46	1.78			N/A	N/A
C-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.78	0.03	0.30	2.26	6.55			N/A	N/A
C-AB	0.01	>199	>199	>199	>199			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.84	0.03	0.29	1.84	7.19			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.09	0.05	0.59	2.43	3.53			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.73	0.04	0.40	1.65	2.59			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2027, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Pagham Rd j/w Sefton Road	T-Junction	Two-way	2.22	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	43	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2027	PM	ONE HOUR	18:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	687	100.000
B		✓	135	100.000
C		✓	134	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		A	B	C	
	A	0	330	357	
	B	123	0	12	
	C	132	2	0	

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		A	B	C	
	A	0	1	3	
	B	4	0	0	
	C	5	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.39	15.43	0.6	2.9	C
C-AB	0.00	8.15	0.0	260.4	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	102	432	0.235	100	0.3	10.818	B
C-AB	2	616	0.003	2	0.0	5.857	A
C-A	99			99			
A-B	248			248			
A-C	269			269			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	121	411	0.295	121	0.4	12.394	B
C-AB	2	604	0.004	2	0.0	5.977	A
C-A	118			118			
A-B	297			297			
A-C	321			321			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	149	382	0.389	148	0.6	15.329	C
C-AB	3	588	0.005	3	0.0	6.147	A
C-A	145			145			
A-B	363			363			
A-C	393			393			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	149	382	0.389	149	0.6	15.434	C
C-AB	3	588	0.005	3	0.0	6.154	A
C-A	145			145			
A-B	363			363			
A-C	393			393			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	121	411	0.295	122	0.4	12.500	B
C-AB	2	604	0.004	2	0.0	5.991	A
C-A	118			118			
A-B	297			297			
A-C	321			321			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	102	432	0.235	102	0.3	10.927	B
C-AB	2	616	0.003	2	0.0	5.866	A
C-A	99			99			
A-B	248			248			
A-C	269			269			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.30	0.00	0.00	0.30	0.30			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.41	0.00	0.00	0.41	0.41			N/A	N/A
C-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.62	0.03	0.26	0.62	0.62			N/A	N/A
C-AB	0.01	>199	>199	>199	>199			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.63	0.03	0.30	1.36	2.93			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.43	0.03	0.32	1.06	1.28			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.31	0.03	0.26	0.46	0.49			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2027 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Pagham Rd j/w Sefton Road	T-Junction	Two-way	26.27	D

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-16	Stream B-AC

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)
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	502	100.000
B		✓	324	100.000
C		✓	498	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	348	154
	B	316	0	8
	C	493	5	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	1	5
	B	2	0	13
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.95	107.95	10.0	49.3	F
C-AB	0.01	4.35	0.0	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	244	425	0.574	239	1.3	18.872	C
C-AB	7	834	0.008	7	0.0	4.349	A
C-A	368			368			
A-B	262			262			
A-C	116			116			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	291	402	0.724	287	2.4	30.072	C
C-AB	9	867	0.011	9	0.0	4.192	A
C-A	438			438			
A-B	313			313			
A-C	138			138			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	357	371	0.961	335	7.7	73.988	F
C-AB	14	916	0.015	14	0.0	3.986	A
C-A	535			535			
A-B	383			383			
A-C	170			170			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	357	371	0.961	347	10.0	107.081	F
C-AB	14	916	0.015	14	0.0	3.989	A
C-A	535			535			
A-B	383			383			
A-C	170			170			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	291	402	0.724	320	3.0	51.839	F
C-AB	9	867	0.011	9	0.0	4.200	A
C-A	438			438			
A-B	313			313			
A-C	138			138			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	244	425	0.574	250	1.4	21.280	C
C-AB	7	834	0.008	7	0.0	4.355	A
C-A	368			368			
A-B	262			262			
A-C	116			116			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.28	0.56	1.16	1.59	1.80			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	2.36	0.10	1.47	5.31	7.27			N/A	N/A
C-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	7.72	0.18	3.80	19.20	26.46			N/A	N/A
C-AB	0.02	0.02	0.25	0.45	0.48			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	10.04	0.11	3.40	27.52	40.28			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	2.98	0.04	0.41	8.14	15.11			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.41	0.03	0.31	2.17	7.06			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2027 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Pagham Rd j/w Sefton Road	T-Junction	Two-way	3.30	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	12	Stream B-AC

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)
D8	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	850	100.000
B		✓	167	100.000
C		✓	212	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
		A	B	C	
From	A	0	381	469	
	B	153	0	14	
	C	207	5	0	

Vehicle Mix

Heavy Vehicle Percentages

		To			
		A	B	C	
From	A	0	1	3	
	B	3	0	0	
	C	3	0	0	

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.55	23.92	1.2	5.2	C
C-AB	0.01	8.03	0.0	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	126	401	0.314	124	0.4	12.926	B
C-AB	5	625	0.008	5	0.0	5.805	A
C-A	155			155			
A-B	287			287			
A-C	353			353			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	150	373	0.403	149	0.7	16.051	C
C-AB	6	616	0.010	6	0.0	5.900	A
C-A	184			184			
A-B	343			343			
A-C	422			422			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	184	334	0.551	182	1.2	23.361	C
C-AB	9	606	0.015	9	0.0	6.025	A
C-A	225			225			
A-B	419			419			
A-C	516			516			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	184	334	0.551	184	1.2	23.924	C
C-AB	9	606	0.015	9	0.0	6.031	A
C-A	225			225			
A-B	419			419			
A-C	516			516			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	150	373	0.403	152	0.7	16.463	C
C-AB	6	616	0.010	6	0.0	5.914	A
C-A	184			184			
A-B	343			343			
A-C	422			422			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	126	401	0.314	127	0.5	13.179	B
C-AB	5	625	0.008	5	0.0	5.813	A
C-A	155			155			
A-B	287			287			
A-C	353			353			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.45	0.00	0.00	0.45	0.45			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
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B-AC	0.66	0.19	0.92	1.38	1.44			N/A	N/A
C-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A

17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.16	0.03	0.28	1.16	4.00			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.19	0.03	0.29	1.19	5.25			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.69	0.05	0.59	1.48	1.53			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.47	0.04	0.38	1.31	1.48			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

Junctions 9
ARCADY 9 - Roundabout Module
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Path: C:\Users\Fiona\OneDrive - Highgate Transportation\1600 - Projects\1616 - Summer Lane, Pagham\Cumulative Impact\Modelling

Report generation date: 21/12/2016 23:47:14

»2022, AM
 »2022, PM
 »2022 + CUMULATIVE, AM
 »2022 + CUMULATIVE, PM
 »2027, AM
 »2027, PM
 »2027 + CUMULATIVE, AM
 »2027 + CUMULATIVE, PM

Summary of junction performance

	AM								PM							
	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity
	2022															
Arm 1	0.6	2.8	6.48	0.39	A	6.90	A	35 % [Arm 2]	2.7	12.9	19.89	0.74	C	11.63	B	8 % [Arm 1]
Arm 2	2.1	3.5	7.71	0.68	A				0.7	2.5	4.24	0.42	A			
Arm 3	0.1	0.5	5.92	0.10	A				0.0	0.5	4.07	0.04	A			
Arm 4	0.9	1.9	5.88	0.49	A				3.3	14.0	12.32	0.77	B			
	2022 + CUMULATIVE															
Arm 1	0.8	2.9	7.61	0.45	A	10.29	B	14 % [Arm 2]	5.6	30.2	40.39	0.87	E	21.59	C	-2 % [Arm 1]
Arm 2	4.2	26.2	13.17	0.81	B				1.0	1.5	4.90	0.50	A			
Arm 3	0.1	0.5	7.41	0.12	A				0.0	0.5	4.42	0.04	A			
Arm 4	1.2	1.5	6.94	0.56	A				7.1	37.3	24.25	0.89	C			
	2027															
Arm 1	0.7	2.9	6.75	0.40	A	7.35	A	30 % [Arm 2]	3.3	16.6	23.71	0.78	C	13.23	B	5 % [Arm 1]
Arm 2	2.3	4.8	8.37	0.70	A				0.8	2.4	4.35	0.43	A			
Arm 3	0.1	0.5	6.15	0.10	A				0.0	0.5	4.14	0.04	A			
Arm 4	1.0	1.7	6.11	0.50	A				3.7	17.5	13.77	0.79	B			
	2027 + CUMULATIVE															
Arm 1	0.9	2.9	7.98	0.47	A	11.48	B	11 % [Arm 2]	7.7	39.6	54.54	0.91	F	27.29	D	-4 % [Arm 1]
Arm 2	5.0	25.4	15.17	0.84	C				1.0	1.5	5.05	0.51	A			
Arm 3	0.1	0.5	7.76	0.12	A				0.0	0.5	4.50	0.04	A			
Arm 4	1.3	1.5	7.26	0.57	A				8.8	49.5	29.73	0.91	D			

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. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	10/11/2016
Version	

Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DESKTOP-MD9GBJC\Fiona
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	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15
D2	2022	PM	ONE HOUR	16:45	18:15	15
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D4	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15
D5	2027	AM	ONE HOUR	07:45	09:15	15
D6	2027	PM	ONE HOUR	16:45	18:15	15
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D8	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2166 jw Vinnetrow Road	Standard Roundabout	6.90	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	35	Arm 2

Arms

Arms

Arm	Name	Description
1	Vinnetrow Road	
2	B2166 E	
3	Mill Lane	
4	B2166 W	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.00	6.00	5.0	30.0	30.0	35.0	
2	4.00	6.00	12.0	30.0	30.0	30.0	
3	3.00	7.00	8.0	20.0	30.0	30.0	
4	3.50	6.00	6.0	20.0	30.0	30.0	

Slope / Intercept / Capacity

Roundabout Slope and intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.559	1219
2	0.649	1633
3	0.591	1375
4	0.593	1385

The slope and intercept shown above include any corrections and adjustments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	317	100.000
2		✓	891	100.000
3		✓	60	100.000

4		✓	527	100.000
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Origin-Destination Data

Demand (Veh/hr)

	To				
	1	2	3	4	
From	1	0	162	8	147
	2	184	0	7	700
	3	13	13	0	34
	4	117	402	8	0

Vehicle Mix

Heavy Vehicle Percentages

	To				
	1	2	3	4	
From	1	0	4	11	5
	2	6	0	0	4
	3	0	0	0	0
	4	1	5	0	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
1	0.39	6.48	0.6	2.8	A
2	0.68	7.71	2.1	3.5	A
3	0.10	5.92	0.1	0.5	A
4	0.49	5.88	0.9	1.9	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	239	317	988	0.242	237	0.3	4.791	A
2	671	122	1485	0.452	668	0.8	4.386	A
3	45	772	898	0.050	45	0.1	4.220	A
4	397	157	1237	0.321	395	0.5	4.266	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	285	380	952	0.299	285	0.4	5.387	A
2	801	146	1469	0.545	800	1.2	5.363	A
3	54	925	803	0.067	54	0.1	4.803	A
4	474	188	1218	0.389	473	0.6	4.827	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	349	465	905	0.386	348	0.6	6.458	A
2	981	179	1448	0.678	978	2.0	7.598	A
3	66	1131	876	0.098	66	0.1	5.899	A
4	580	230	1193	0.486	579	0.9	5.851	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
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1	349	466	904	0.386	349	0.6	6.482	A
2	981	179	1448	0.678	981	2.1	7.709	A
3	66	1135	674	0.098	66	0.1	5.924	A
4	580	231	1193	0.487	580	0.9	5.878	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	285	381	952	0.299	286	0.4	5.414	A
2	801	147	1469	0.545	804	1.2	5.445	A
3	54	931	800	0.067	54	0.1	4.828	A
4	474	190	1218	0.389	475	0.6	4.856	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	239	319	986	0.242	239	0.3	4.821	A
2	671	123	1485	0.452	672	0.8	4.440	A
3	45	778	894	0.051	45	0.1	4.239	A
4	397	158	1236	0.321	397	0.5	4.296	A

Queue Variation Results for each time segment

07:45 - 08:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.32	0.00	0.00	0.32	0.32			N/A	N/A
2	0.82	0.55	1.00	1.40	1.45			N/A	N/A
3	0.05	0.00	0.00	0.05	0.05			N/A	N/A
4	0.47	0.00	0.00	0.47	0.47			N/A	N/A

08:00 - 08:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.42	0.00	0.00	0.42	0.42			N/A	N/A
2	1.18	0.06	0.82	2.48	3.45			N/A	N/A
3	0.07	0.03	0.25	0.45	0.48			N/A	N/A
4	0.63	0.11	0.86	1.37	1.44			N/A	N/A

08:15 - 08:30

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.62	0.03	0.25	0.82	0.82			N/A	N/A
2	2.05	0.03	0.27	2.05	2.88			N/A	N/A
3	0.11	0.03	0.26	0.47	0.49			N/A	N/A
4	0.94	0.03	0.26	0.94	0.94			N/A	N/A

08:30 - 08:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.62	0.03	0.29	1.20	2.80			N/A	N/A
2	2.08	0.03	0.27	2.08	2.08			N/A	N/A
3	0.11	0.00	0.00	0.11	0.11			N/A	N/A
4	0.94	0.03	0.27	0.94	1.88			N/A	N/A

08:45 - 09:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.43	0.00	0.00	0.43	0.43			N/A	N/A
2	1.21	0.09	1.03	2.10	2.82			N/A	N/A
3	0.07	0.00	0.00	0.07	0.07			N/A	N/A
4	0.64	0.21	0.93	1.39	1.44			N/A	N/A

09:00 - 09:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.32	0.00	0.00	0.32	0.32			N/A	N/A
2	0.83	0.05	0.56	1.63	2.22			N/A	N/A

3	0.05	0.00	0.00	0.05	0.05			N/A	N/A
4	0.48	0.04	0.41	1.24	1.37			N/A	N/A

2022, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2166 jw Vinnetrow Road	Standard Roundabout	11.63	B

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	8	Arm 1

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	459	100.000
2		✓	560	100.000
3		✓	30	100.000
4		✓	884	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		1	2	3	4
	1	0	305	23	131
	2	119	0	5	436
	3	4	12	0	14
	4	66	803	15	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		1	2	3	4
	1	0	3	0	0
	2	4	0	0	3
	3	0	0	0	0
	4	7	2	0	0

Results

Results Summary for whole modelled period

				Max 95th	
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Arm	Max RFC	Max delay (s)	Max Queue (Veh)	percentile Queue (Veh)	Max LOS
1	0.74	19.89	2.7	12.9	C
2	0.42	4.24	0.7	2.5	A
3	0.04	4.07	0.0	0.5	A
4	0.77	12.32	3.3	14.0	B

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	346	621	848	0.407	343	0.7	7.085	A
2	422	126	1504	0.280	420	0.4	3.318	A
3	23	514	1063	0.021	22	0.0	3.458	A
4	666	101	1293	0.515	661	1.0	5.665	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	413	744	779	0.529	411	1.1	9.725	A
2	503	151	1488	0.338	503	0.5	3.653	A
3	27	616	1002	0.027	27	0.0	3.693	A
4	795	121	1281	0.621	792	1.6	7.340	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	505	908	688	0.735	499	2.6	18.561	C
2	617	184	1467	0.420	616	0.7	4.223	A
3	33	753	918	0.036	33	0.0	4.066	A
4	973	148	1264	0.770	967	3.2	11.860	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	505	914	685	0.738	505	2.7	19.891	C
2	617	186	1466	0.421	617	0.7	4.237	A
3	33	755	917	0.036	33	0.0	4.072	A
4	973	149	1264	0.770	973	3.3	12.319	B

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	413	752	775	0.532	419	1.2	10.272	B
2	503	154	1486	0.339	504	0.5	3.671	A
3	27	619	999	0.027	27	0.0	3.704	A
4	795	122	1281	0.621	801	1.7	7.603	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	346	627	845	0.409	347	0.7	7.264	A
2	422	128	1502	0.281	422	0.4	3.332	A
3	23	517	1061	0.021	23	0.0	3.468	A
4	666	102	1292	0.515	668	1.1	5.788	A

Queue Variation Results for each time segment

16:45 - 17:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.68	0.55	1.00	1.40	1.45			N/A	N/A
2	0.39	0.00	0.00	0.39	0.39			N/A	N/A

3	0.02	0.00	0.00	0.02	0.02			N/A	N/A
4	1.05	0.55	1.00	1.40	1.45			N/A	N/A

17:00 - 17:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.10	0.07	0.87	2.01	2.83			N/A	N/A
2	0.51	0.51	1.00	1.40	1.45			N/A	N/A
3	0.03	0.03	0.25	0.45	0.48			N/A	N/A
4	1.60	0.06	0.78	3.87	5.73			N/A	N/A

17:15 - 17:30

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	2.57	0.03	0.31	3.86	12.94			N/A	N/A
2	0.72	0.03	0.25	0.72	0.72			N/A	N/A
3	0.04	0.03	0.25	0.45	0.48			N/A	N/A
4	3.17	0.03	0.30	3.17	13.98			N/A	N/A

17:30 - 17:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	2.70	0.03	0.29	2.70	10.72			N/A	N/A
2	0.72	0.03	0.28	0.72	2.51			N/A	N/A
3	0.04	0.00	0.00	0.04	0.04			N/A	N/A
4	3.25	0.03	0.28	3.25	6.41			N/A	N/A

17:45 - 18:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.17	0.05	0.52	2.72	3.99			N/A	N/A
2	0.52	0.52	1.00	1.40	1.45			N/A	N/A
3	0.03	0.00	0.00	0.03	0.03			N/A	N/A
4	1.67	0.06	0.74	4.12	6.17			N/A	N/A

18:00 - 18:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.70	0.04	0.35	1.65	2.89			N/A	N/A
2	0.39	0.00	0.00	0.39	0.39			N/A	N/A
3	0.02	0.00	0.00	0.02	0.02			N/A	N/A
4	1.08	0.04	0.39	2.71	4.60			N/A	N/A

2022 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2166 jw Vinnetrow Road	Standard Roundabout	10.29	B

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	14	Arm 2

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	358	100.000
2		✓	1081	100.000
3		✓	60	100.000
4		✓	588	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		1	2	3	4
	1	0	203	8	147
	2	224	0	7	850
	3	13	13	0	34
	4	117	463	8	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		1	2	3	4
	1	0	4	11	5
	2	5	0	0	3
	3	0	0	0	0
	4	1	5	0	0

Results

Results Summary for whole modelled period

				Max 95th	
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Arm	Max RFC	Max delay (s)	Max Queue (Veh)	percentile Queue (Veh)	Max LOS
1	0.45	7.61	0.8	2.9	A
2	0.81	13.17	4.2	20.2	B
3	0.12	7.41	0.1	0.5	A
4	0.56	6.94	1.2	1.5	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	270	363	963	0.280	268	0.4	5.170	A
2	814	122	1499	0.543	809	1.2	5.181	A
3	45	914	815	0.055	45	0.1	4.673	A
4	443	187	1219	0.363	440	0.6	4.613	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	322	434	922	0.349	321	0.5	5.982	A
2	972	146	1483	0.655	969	1.9	6.963	A
3	54	1095	704	0.077	54	0.1	5.534	A
4	529	224	1197	0.442	528	0.8	5.375	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	394	531	868	0.454	393	0.8	7.560	A
2	1190	179	1462	0.814	1181	4.1	12.452	B
3	66	1335	557	0.119	66	0.1	7.324	A
4	647	273	1167	0.555	646	1.2	6.876	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	394	533	867	0.455	394	0.8	7.609	A
2	1190	179	1461	0.814	1190	4.2	13.172	B
3	66	1344	552	0.120	66	0.1	7.411	A
4	647	275	1166	0.555	647	1.2	6.936	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	322	437	921	0.349	323	0.5	6.028	A
2	972	147	1483	0.655	981	1.9	7.301	A
3	54	1107	697	0.077	54	0.1	5.603	A
4	529	227	1195	0.442	530	0.8	5.430	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	270	365	961	0.280	270	0.4	5.215	A
2	814	123	1499	0.543	817	1.2	5.302	A
3	45	922	810	0.056	45	0.1	4.709	A
4	443	189	1218	0.364	444	0.6	4.657	A

Queue Variation Results for each time segment

07:45 - 08:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.39	0.00	0.00	0.39	0.39			N/A	N/A
2	1.17	0.55	1.00	1.40	1.45			N/A	N/A

3	0.06	0.00	0.00	0.06	0.06			N/A	N/A
4	0.57	0.55	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.53	0.53	1.00	1.40	1.45			N/A	N/A
2	1.86	0.05	0.57	4.85	7.57			N/A	N/A
3	0.08	0.03	0.25	0.45	0.48			N/A	N/A
4	0.78	0.10	0.87	1.43	1.50			N/A	N/A

08:15 - 08:30

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.82	0.03	0.26	0.82	0.82			N/A	N/A
2	4.09	0.03	0.32	5.73	20.24			N/A	N/A
3	0.13	0.03	0.26	0.47	0.49			N/A	N/A
4	1.22	0.03	0.26	1.22	1.22			N/A	N/A

08:30 - 08:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.83	0.03	0.28	0.83	2.89			N/A	N/A
2	4.23	0.03	0.28	4.23	11.34			N/A	N/A
3	0.14	0.03	0.25	0.45	0.48			N/A	N/A
4	1.24	0.03	0.27	1.24	1.36			N/A	N/A

08:45 - 09:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.54	0.07	0.73	1.35	1.42			N/A	N/A
2	1.94	0.05	0.58	5.10	7.97			N/A	N/A
3	0.08	0.00	0.00	0.08	0.08			N/A	N/A
4	0.80	0.16	0.92	1.41	1.47			N/A	N/A

09:00 - 09:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.39	0.03	0.28	0.68	1.09			N/A	N/A
2	1.20	0.04	0.37	3.01	5.71			N/A	N/A
3	0.06	0.00	0.00	0.06	0.06			N/A	N/A
4	0.58	0.06	0.60	1.33	1.42			N/A	N/A

2022 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2166 jw Vinnetrow Road	Standard Roundabout	21.59	C

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-2	Arm 1

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	481	100.000
2		✓	665	100.000
3		✓	30	100.000
4		✓	1006	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From	1	2	3	4	
	1	0	327	23	131
	2	143	0	5	517
	3	4	12	0	14
	4	66	925	15	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
From	1	2	3	4	
	1	0	3	0	0
	2	4	0	0	3
	3	0	0	0	0
	4	7	2	0	0

Results

Results Summary for whole modelled period

				Max 95th	
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Arm	Max RFC	Max delay (s)	Max Queue (Veh)	percentile Queue (Veh)	Max LOS
1	0.37	40.33	5.6	30.2	E
2	0.50	4.90	1.0	1.5	A
3	0.04	4.42	0.0	0.5	A
4	0.83	24.25	7.1	37.3	C

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	362	711	797	0.454	359	0.8	8.153	A
2	501	126	1504	0.333	499	0.5	3.574	A
3	23	593	1015	0.022	22	0.0	3.625	A
4	757	119	1282	0.591	752	1.4	6.714	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	432	852	719	0.602	430	1.5	12.353	B
2	598	151	1488	0.402	597	0.7	4.042	A
3	27	710	944	0.029	27	0.0	3.924	A
4	904	143	1268	0.713	900	2.4	9.683	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	530	1033	618	0.857	516	4.8	32.030	D
2	732	182	1469	0.499	731	1.0	4.872	A
3	33	866	849	0.039	33	0.0	4.410	A
4	1108	175	1249	0.887	1091	6.5	20.907	C

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	530	1046	610	0.868	527	5.6	40.084	E
2	732	185	1466	0.499	732	1.0	4.902	A
3	33	870	847	0.039	33	0.0	4.423	A
4	1108	175	1249	0.887	1105	7.1	24.254	C

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	432	873	707	0.611	448	1.6	14.668	B
2	598	157	1484	0.403	599	0.7	4.075	A
3	27	717	940	0.029	27	0.0	3.944	A
4	904	143	1268	0.713	922	2.6	10.912	B

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	362	721	792	0.457	365	0.9	8.497	A
2	501	128	1502	0.333	501	0.5	3.601	A
3	23	597	1013	0.022	23	0.0	3.635	A
4	757	120	1282	0.591	762	1.5	6.977	A

Queue Variation Results for each time segment

16:45 - 17:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.82	0.55	1.00	1.40	1.45			N/A	N/A
2	0.50	0.00	0.00	0.50	0.50			N/A	N/A

3	0.02	0.00	0.00	0.02	0.02			N/A	N/A
4	1.42	0.58	1.30	1.75	1.88			N/A	N/A

17:00 - 17:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.46	0.06	0.79	3.43	4.94			N/A	N/A
2	0.67	0.10	0.84	1.37	1.44			N/A	N/A
3	0.03	0.03	0.25	0.45	0.48			N/A	N/A
4	2.40	0.06	0.75	6.44	9.96			N/A	N/A

17:15 - 17:30

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	4.79	0.05	0.47	13.63	24.20			N/A	N/A
2	0.98	0.03	0.26	0.98	0.98			N/A	N/A
3	0.04	0.03	0.25	0.45	0.48			N/A	N/A
4	6.51	0.04	0.43	17.92	34.70			N/A	N/A

17:30 - 17:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	5.55	0.04	0.38	13.60	30.16			N/A	N/A
2	0.99	0.03	0.27	0.99	1.34			N/A	N/A
3	0.04	0.00	0.00	0.04	0.04			N/A	N/A
4	7.05	0.03	0.34	12.61	37.35			N/A	N/A

17:45 - 18:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.63	0.04	0.41	4.34	7.56			N/A	N/A
2	0.68	0.55	1.00	1.40	1.45			N/A	N/A
3	0.03	0.00	0.00	0.03	0.03			N/A	N/A
4	2.58	0.04	0.43	7.11	12.49			N/A	N/A

18:00 - 18:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.86	0.03	0.30	1.45	4.22			N/A	N/A
2	0.50	0.05	0.48	1.29	1.40			N/A	N/A
3	0.02	0.00	0.00	0.02	0.02			N/A	N/A
4	1.47	0.03	0.33	3.09	7.63			N/A	N/A

2027, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2166 jw Vinnetrow Road	Standard Roundabout	7.35	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	30	Arm 2

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2027	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	329	100.000
2		✓	920	100.000
3		✓	60	100.000
4		✓	545	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		1	2	3	4
	1	0	168	9	152
	2	190	0	8	722
	3	13	13	0	34
	4	121	415	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		1	2	3	4
	1	0	4	11	5
	2	6	0	0	4
	3	0	0	0	0
	4	1	5	0	0

Results

Results Summary for whole modelled period

				Max 95th	
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Arm	Max RFC	Max delay (s)	Max Queue (Veh)	percentile Queue (Veh)	Max LOS
1	0.40	6.75	0.7	2.9	A
2	0.70	8.37	2.3	4.8	A
3	0.10	6.15	0.1	0.5	A
4	0.50	6.11	1.0	1.7	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	248	327	982	0.252	246	0.3	4.887	A
2	693	127	1482	0.467	689	0.9	4.522	A
3	45	797	883	0.051	45	0.1	4.296	A
4	410	162	1234	0.332	408	0.5	4.348	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	296	392	945	0.313	295	0.5	5.535	A
2	827	153	1465	0.564	825	1.3	5.612	A
3	54	955	785	0.069	54	0.1	4.923	A
4	490	194	1215	0.403	489	0.7	4.954	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	362	480	896	0.404	361	0.7	6.720	A
2	1013	187	1443	0.702	1009	2.3	8.219	A
3	66	1167	654	0.101	66	0.1	6.121	A
4	600	237	1189	0.505	599	1.0	6.083	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	362	481	896	0.404	362	0.7	6.749	A
2	1013	187	1443	0.702	1013	2.3	8.368	A
3	66	1171	651	0.101	66	0.1	6.151	A
4	600	238	1189	0.505	600	1.0	6.115	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	296	394	944	0.313	297	0.5	5.564	A
2	827	153	1465	0.565	831	1.3	5.718	A
3	54	961	781	0.069	54	0.1	4.953	A
4	490	195	1214	0.403	491	0.7	4.989	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	248	330	980	0.253	248	0.3	4.921	A
2	693	128	1481	0.468	694	0.9	4.585	A
3	45	803	879	0.051	45	0.1	4.318	A
4	410	163	1234	0.333	411	0.5	4.380	A

Queue Variation Results for each time segment

07:45 - 08:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.34	0.00	0.00	0.34	0.34			N/A	N/A
2	0.87	0.55	1.00	1.40	1.45			N/A	N/A

3	0.05	0.00	0.00	0.05	0.05			N/A	N/A
4	0.49	0.00	0.00	0.49	0.49			N/A	N/A

08:00 - 08:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.45	0.00	0.00	0.45	0.45			N/A	N/A
2	1.28	0.06	0.79	2.82	3.98			N/A	N/A
3	0.07	0.03	0.25	0.46	0.46			N/A	N/A
4	0.67	0.12	0.86	1.37	1.44			N/A	N/A

08:15 - 08:30

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.67	0.03	0.25	0.67	0.67			N/A	N/A
2	2.29	0.03	0.28	2.29	4.79			N/A	N/A
3	0.11	0.03	0.26	0.47	0.49			N/A	N/A
4	1.01	0.03	0.26	1.01	1.01			N/A	N/A

08:30 - 08:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.67	0.03	0.29	1.08	2.85			N/A	N/A
2	2.32	0.03	0.27	2.32	2.32			N/A	N/A
3	0.11	0.00	0.00	0.11	0.11			N/A	N/A
4	1.01	0.03	0.27	1.01	1.70			N/A	N/A

08:45 - 09:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.46	0.00	0.00	0.46	0.46			N/A	N/A
2	1.32	0.08	1.02	2.60	3.49			N/A	N/A
3	0.07	0.00	0.00	0.07	0.07			N/A	N/A
4	0.68	0.21	0.93	1.39	1.44			N/A	N/A

09:00 - 09:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.34	0.00	0.00	0.34	0.34			N/A	N/A
2	0.89	0.05	0.48	1.86	2.75			N/A	N/A
3	0.05	0.00	0.00	0.05	0.05			N/A	N/A
4	0.50	0.05	0.47	1.29	1.39			N/A	N/A

2027, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2166 jw Vinnetrow Road	Standard Roundabout	13.23	B

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	5	Arm 1

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2027	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	473	100.000
2		✓	577	100.000
3		✓	30	100.000
4		✓	910	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		1	2	3	4
	1	0	314	24	135
	2	123	0	5	449
	3	4	12	0	14
	4	68	827	15	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		1	2	3	4
	1	0	3	0	0
	2	4	0	0	3
	3	0	0	0	0
	4	7	2	0	0

Results

Results Summary for whole modelled period

				Max 95th	
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Arm	Max RFC	Max delay (s)	Max Queue (Veh)	percentile Queue (Veh)	Max LOS
1	0.78	23.71	3.3	16.6	C
2	0.43	4.35	0.8	2.4	A
3	0.04	4.14	0.0	0.5	A
4	0.79	13.77	3.7	17.5	B

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	356	639	838	0.425	353	0.7	7.378	A
2	434	130	1501	0.289	433	0.4	3.365	A
3	23	530	1054	0.021	22	0.0	3.490	A
4	685	104	1291	0.531	681	1.1	5.858	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	425	765	767	0.554	423	1.2	10.401	B
2	519	156	1485	0.349	518	0.5	3.721	A
3	27	635	990	0.027	27	0.0	3.736	A
4	818	125	1279	0.640	816	1.7	7.734	A

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	521	933	674	0.773	513	3.1	21.512	C
2	635	189	1464	0.434	634	0.8	4.334	A
3	33	775	905	0.037	33	0.0	4.130	A
4	1002	153	1262	0.794	994	3.6	13.107	B

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	521	940	670	0.777	520	3.3	23.715	C
2	635	191	1463	0.434	635	0.8	4.351	A
3	33	778	903	0.037	33	0.0	4.138	A
4	1002	153	1262	0.794	1001	3.7	13.772	B

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	425	775	762	0.558	433	1.3	11.192	B
2	519	159	1483	0.350	520	0.5	3.743	A
3	27	639	988	0.027	27	0.0	3.749	A
4	818	125	1278	0.640	826	1.8	8.082	A

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	356	645	835	0.427	358	0.8	7.591	A
2	434	132	1500	0.290	435	0.4	3.380	A
3	23	533	1051	0.021	23	0.0	3.500	A
4	685	105	1291	0.531	688	1.1	6.000	A

Queue Variation Results for each time segment

16:45 - 17:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.73	0.55	1.00	1.40	1.45			N/A	N/A
2	0.41	0.00	0.00	0.41	0.41			N/A	N/A

3	0.02	0.00	0.00	0.02	0.02			N/A	N/A
4	1.12	0.55	1.00	1.40	1.45			N/A	N/A

17:00 - 17:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.21	0.07	0.85	2.53	3.50			N/A	N/A
2	0.53	0.53	1.00	1.40	1.45			N/A	N/A
3	0.03	0.03	0.25	0.45	0.48			N/A	N/A
4	1.74	0.06	0.76	4.35	6.51			N/A	N/A

17:15 - 17:30

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	3.09	0.03	0.34	6.44	16.59			N/A	N/A
2	0.76	0.03	0.25	0.76	0.76			N/A	N/A
3	0.04	0.03	0.25	0.45	0.48			N/A	N/A
4	3.61	0.03	0.31	4.73	17.53			N/A	N/A

17:30 - 17:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	3.29	0.03	0.30	3.40	15.04			N/A	N/A
2	0.76	0.03	0.28	0.76	2.35			N/A	N/A
3	0.04	0.00	0.00	0.04	0.04			N/A	N/A
4	3.73	0.03	0.28	3.73	9.73			N/A	N/A

17:45 - 18:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.29	0.05	0.46	3.22	5.01			N/A	N/A
2	0.54	0.54	1.00	1.40	1.45			N/A	N/A
3	0.03	0.00	0.00	0.03	0.03			N/A	N/A
4	1.82	0.05	0.60	4.72	7.26			N/A	N/A

18:00 - 18:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.75	0.03	0.33	1.73	3.47			N/A	N/A
2	0.41	0.00	0.00	0.41	0.41			N/A	N/A
3	0.02	0.00	0.00	0.02	0.02			N/A	N/A
4	1.15	0.04	0.37	2.89	5.25			N/A	N/A

2027 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2166 jw Vinnetrow Road	Standard Roundabout	11.48	B

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	11	Arm 2

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)
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	370	100.000
2		✓	1110	100.000
3		✓	60	100.000
4		✓	606	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		1	2	3	4
	1	0	209	9	152
	2	230	0	8	872
	3	13	13	0	34
	4	121	476	9	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		1	2	3	4
	1	0	4	11	5
	2	5	0	0	3
	3	0	0	0	0
	4	1	5	0	0

Results

Results Summary for whole modelled period

				Max 95th	
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Arm	Max RFC	Max delay (s)	Max Queue (Veh)	percentile Queue (Veh)	Max LOS
1	0.47	7.98	0.9	2.9	A
2	0.84	15.17	5.0	25.4	C
3	0.12	7.76	0.1	0.5	A
4	0.57	7.26	1.3	1.5	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	279	373	957	0.291	277	0.4	5.283	A
2	836	127	1496	0.559	831	1.2	5.373	A
3	45	938	800	0.056	45	0.1	4.766	A
4	456	192	1216	0.375	454	0.6	4.709	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	333	447	915	0.363	332	0.6	6.166	A
2	998	153	1479	0.675	995	2.0	7.385	A
3	54	1124	686	0.079	54	0.1	5.691	A
4	545	229	1194	0.456	544	0.8	5.532	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	407	547	859	0.474	406	0.9	7.919	A
2	1222	187	1457	0.839	1211	4.8	14.065	B
3	66	1369	536	0.123	66	0.1	7.652	A
4	667	279	1164	0.573	665	1.3	7.192	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	407	548	858	0.475	407	0.9	7.978	A
2	1222	187	1456	0.839	1221	5.0	15.174	C
3	66	1380	530	0.125	66	0.1	7.765	A
4	667	282	1162	0.574	667	1.3	7.265	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	333	449	914	0.364	334	0.6	6.221	A
2	998	153	1479	0.675	1009	2.1	7.846	A
3	54	1139	677	0.080	54	0.1	5.782	A
4	545	233	1192	0.457	547	0.9	5.599	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	279	376	955	0.292	279	0.4	5.332	A
2	836	128	1495	0.559	839	1.3	5.513	A
3	45	948	794	0.057	45	0.1	4.807	A
4	456	193	1215	0.375	457	0.6	4.756	A

Queue Variation Results for each time segment

07:45 - 08:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.41	0.00	0.00	0.41	0.41			N/A	N/A
2	1.25	0.56	1.08	1.25	1.62			N/A	N/A

3	0.06	0.00	0.00	0.06	0.06			N/A	N/A
4	0.60	0.55	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.56	0.09	0.81	1.36	1.43			N/A	N/A
2	2.02	0.05	0.54	5.39	8.49			N/A	N/A
3	0.08	0.03	0.25	0.45	0.48			N/A	N/A
4	0.83	0.10	0.87	1.44	1.44			N/A	N/A

08:15 - 08:30

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.89	0.03	0.26	0.89	0.89			N/A	N/A
2	4.76	0.03	0.34	9.01	25.42			N/A	N/A
3	0.14	0.03	0.26	0.47	0.49			N/A	N/A
4	1.32	0.03	0.26	1.32	1.32			N/A	N/A

08:30 - 08:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.90	0.03	0.28	0.90	2.85			N/A	N/A
2	4.97	0.03	0.29	4.97	17.70			N/A	N/A
3	0.14	0.03	0.25	0.45	0.48			N/A	N/A
4	1.33	0.03	0.27	1.33	1.33			N/A	N/A

08:45 - 09:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.58	0.09	0.79	1.36	1.43			N/A	N/A
2	2.13	0.05	0.48	5.76	9.32			N/A	N/A
3	0.09	0.00	0.00	0.09	0.09			N/A	N/A
4	0.85	0.15	0.93	1.19	1.19			N/A	N/A

09:00 - 09:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.42	0.03	0.32	1.05	1.28			N/A	N/A
2	1.28	0.04	0.35	3.13	6.39			N/A	N/A
3	0.06	0.00	0.00	0.06	0.06			N/A	N/A
4	0.61	0.06	0.61	1.35	1.44			N/A	N/A

2027 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2166 jw Vinnetrow Road	Standard Roundabout	27.29	D

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-4	Arm 1

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)
D8	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	495	100.000
2		✓	682	100.000
3		✓	30	100.000
4		✓	1032	100.000

Origin-Destination Data

Demand (Veh/hr)

		To			
From		1	2	3	4
	1	0	336	24	135
	2	147	0	5	530
	3	4	12	0	14
	4	68	949	15	0

Vehicle Mix

Heavy Vehicle Percentages

		To			
From		1	2	3	4
	1	0	3	0	0
	2	4	0	0	3
	3	0	0	0	0
	4	7	2	0	0

Results

Results Summary for whole modelled period

				Max 95th	
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Arm	Max RFC	Max delay (s)	Max Queue (Veh)	percentile Queue (Veh)	Max LOS
1	0.51	54.54	7.7	55.5	F
2	0.51	5.05	1.0	1.5	A
3	0.04	4.50	0.0	0.5	A
4	0.31	29.73	8.8	48.5	C

Main Results for each time segment

16:45 - 17:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	373	729	787	0.473	369	0.9	8.537	A
2	513	130	1501	0.342	511	0.5	3.629	A
3	23	608	1006	0.022	22	0.0	3.660	A
4	777	122	1281	0.607	771	1.5	6.985	A

17:00 - 17:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	445	873	707	0.630	442	1.6	13.436	B
2	613	155	1485	0.413	612	0.7	4.121	A
3	27	728	933	0.029	27	0.0	3.974	A
4	928	146	1266	0.733	923	2.6	10.365	B

17:15 - 17:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	545	1055	605	0.900	527	6.2	39.158	E
2	751	185	1466	0.512	750	1.0	5.014	A
3	33	888	836	0.040	33	0.0	4.483	A
4	1136	179	1246	0.912	1115	7.9	24.283	C

17:30 - 17:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	545	1071	596	0.914	539	7.7	54.535	F
2	751	190	1464	0.513	751	1.0	5.050	A
3	33	892	833	0.040	33	0.0	4.498	A
4	1136	179	1246	0.912	1133	8.8	29.726	D

17:45 - 18:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	445	900	692	0.643	468	1.9	17.595	C
2	613	164	1480	0.414	614	0.7	4.169	A
3	27	738	927	0.029	27	0.0	3.998	A
4	928	147	1266	0.733	951	2.9	12.243	B

18:00 - 18:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	373	740	782	0.477	376	0.9	8.969	A
2	513	132	1500	0.342	514	0.5	3.655	A
3	23	613	1003	0.023	23	0.0	3.671	A
4	777	123	1280	0.607	782	1.6	7.303	A

Queue Variation Results for each time segment

16:45 - 17:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.88	0.55	1.00	1.40	1.45			N/A	N/A
2	0.52	0.52	1.00	1.40	1.45			N/A	N/A

3	0.02	0.00	0.00	0.02	0.02			N/A	N/A
4	1.51	0.59	1.44	1.85	1.96			N/A	N/A

17:00 - 17:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.64	0.06	0.77	3.98	5.92			N/A	N/A
2	0.70	0.10	0.84	1.38	1.44			N/A	N/A
3	0.03	0.03	0.25	0.45	0.48			N/A	N/A
4	2.63	0.06	0.80	7.12	11.08			N/A	N/A

17:15 - 17:30

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	6.19	0.06	1.36	17.73	28.11			N/A	N/A
2	1.04	0.03	0.26	1.04	1.04			N/A	N/A
3	0.04	0.03	0.25	0.45	0.48			N/A	N/A
4	7.89	0.05	0.75	22.86	39.72			N/A	N/A

17:30 - 17:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	7.70	0.05	0.50	22.14	39.60			N/A	N/A
2	1.05	0.03	0.27	1.05	1.13			N/A	N/A
3	0.04	0.00	0.00	0.04	0.04			N/A	N/A
4	8.80	0.04	0.38	21.18	48.47			N/A	N/A

17:45 - 18:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.88	0.04	0.40	5.02	9.18			N/A	N/A
2	0.71	0.46	0.97	1.39	1.45			N/A	N/A
3	0.03	0.00	0.00	0.03	0.03			N/A	N/A
4	2.87	0.04	0.42	7.91	14.29			N/A	N/A

18:00 - 18:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.93	0.03	0.30	1.08	4.36			N/A	N/A
2	0.52	0.05	0.58	1.32	1.41			N/A	N/A
3	0.02	0.00	0.00	0.02	0.02			N/A	N/A
4	1.57	0.03	0.32	2.99	8.18			N/A	N/A

Junctions 9
PICADY 9 - Priority Intersection Module
Version: 9.0.1.4646 [] © Copyright TRL Limited, 2016
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Filename: 1616 Lower Bognor Road Pagham Road.j9

Path: C:\Users\Fiona\OneDrive - Highgate Transportation\1600 - Projects\1616 - Summer Lane, Pagham\Cumulative Impact\Modelling

Report generation date: 21/12/2016 23:47:55

»2022, AM
 »2022, PM
 »2022 + CUMULATIVE, AM
 »2022 + CUMULATIVE, PM
 »2027, AM
 »2027, PM
 »2027 + CUMULATIVE, AM
 »2027 + CUMULATIVE, PM

Summary of junction performance

	AM								PM							
	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity
	2022															
Stream B-AC	25.3	54.3	178.06	1.95	F	46.25	E	-21 %	4.1	21.9	84.32	0.83	F	8.86	A	-10 %
Stream C-AB	0.0	200.2	4.24	0.00	A			[Stream B-AC]	0.0	0.5	6.46	0.02	A			[Stream B-AC]
	2022 + CUMULATIVE															
Stream B-AC	45.6	78.9	335.32	1.23	F	90.87	F	-27 %	14.2	38.1	205.70	1.55	F	24.36	C	-19 %
Stream C-AB	0.0	200.2	3.84	0.00	A			[Stream B-AC]	0.0	0.5	5.98	0.02	A			[Stream B-AC]
	2027															
Stream B-AC	28.8	82.9	232.97	1.10	F	54.04	F	-23 %	5.3	25.3	95.75	0.88	F	11.16	B	-12 %
Stream C-AB	0.0	200.2	4.20	0.00	A			[Stream B-AC]	0.0	0.5	6.44	0.02	A			[Stream B-AC]
	2027 + CUMULATIVE															
Stream B-AC	55.1	99.0	515.04	1.29	F	118.48	F	-30 %	20.1	45.2	274.87	1.12	F	32.70	D	-21 %
Stream C-AB	0.0	200.2	3.81	0.00	A			[Stream B-AC]	0.0	0.5	5.98	0.02	A			[Stream B-AC]

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. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	19/09/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	DESKTOP-MD9GBJC\Fiona
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	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15
D2	2022	PM	ONE HOUR	16:45	18:15	15
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D4	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15
D5	2027	AM	ONE HOUR	07:45	09:15	15
D6	2027	PM	ONE HOUR	16:45	18:15	15
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D8	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Lower Bognor Road j/w Pagham Road	T-Junction	Two-way	49.25	F

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-21	Stream B-AC

Arms

Arms

Arm	Name	Description	Arm type
A	Pagham Road North		Major
B	Lower Bognor Road		Minor
C	Pagham Road South		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	7.30			60.0	✓	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	One lane	4.50	35	25

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (Veh/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	576	0.099	0.250	0.158	0.358
1	B-C	736	0.106	0.269	-	-
1	C-B	609	0.223	0.223	-	-

The slopes and intercepts shown above do NOT include any corrections or adjustments.

Streams may be combined, in which case capacity will be adjusted.

Values are shown for the first time segment only; they may differ for subsequent time segments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	383	100.000
B		✓	376	100.000
C		✓	593	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
		A	B	C
From	A	0	199	184
	B	375	0	1
	C	592	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
		A	B	C
From	A	0	2	5
	B	1	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	1.05	179.66	20.9	54.3	F
C-AB	0.00	4.24	0.0	296.2	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	283	449	0.631	277	1.6	20.218	D
C-AB	2	851	0.002	2	0.0	4.237	A
C-A	445			445			
A-B	150			150			
A-C	139			139			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	338	425	0.795	331	3.3	35.889	E
C-AB	2	902	0.002	2	0.0	3.998	A
C-A	531			531			
A-B	179			179			
A-C	165			165			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	414	392	1.055	373	13.5	103.742	F
C-AB	3	974	0.003	3	0.0	3.703	A
C-A	650			650			
A-B	219			219			
A-C	203			203			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	414	392	1.055	385	20.9	179.667	F
C-AB	3	974	0.003	3	0.0	3.706	A
C-A	650			650			

A-B	219			219			
A-C	203			203			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	338	425	0.795	400	5.4	120.583	F
C-AB	2	902	0.002	2	0.0	4.006	A
C-A	531			531			
A-B	179			179			
A-C	165			165			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	283	449	0.631	298	1.8	25.703	D
C-AB	2	851	0.002	2	0.0	4.242	A
C-A	445			445			
A-B	150			150			
A-C	139			139			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.61	0.54	1.49	2.22	2.72			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	3.28	0.12	1.47	7.73	10.63			N/A	N/A
C-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A

08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	13.54	1.11	10.22	27.66	34.68			N/A	N/A
C-AB	0.00	>199	>199	>199	>199			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	20.88	1.87	15.90	43.23	54.28			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	5.44	0.06	1.01	15.58	25.35			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.82	0.03	0.30	2.21	8.63			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2022, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Lower Bognor Road j/w Pagham Road	T-Junction	Two-way	8.86	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-10	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	1119	100.000
B		✓	226	100.000
C		✓	270	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	516	603
	B	226	0	0
	C	266	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	1	3
	B	0	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.83	94.32	4.1	21.9	F
C-AB	0.02	6.46	0.0	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	170	387	0.440	167	0.8	16.163	C
C-AB	5	570	0.008	5	0.0	6.369	A
C-A	199			199			
A-B	388			388			
A-C	454			454			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	203	350	0.580	201	1.3	23.775	C
C-AB	6	567	0.011	6	0.0	6.409	A
C-A	236			236			
A-B	464			464			
A-C	542			542			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	249	299	0.831	239	3.7	51.322	F
C-AB	9	567	0.016	9	0.0	6.449	A
C-A	288			288			
A-B	568			568			
A-C	664			664			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	249	299	0.831	247	4.1	84.316	F
C-AB	9	567	0.016	9	0.0	6.457	A
C-A	288			288			
A-B	568			568			
A-C	664			664			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	203	350	0.580	214	1.5	28.141	C
C-AB	6	567	0.011	6	0.0	6.429	A
C-A	236			236			
A-B	464			464			
A-C	542			542			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	170	387	0.440	173	0.8	17.007	C
C-AB	5	570	0.008	5	0.0	6.380	A
C-A	199			199			
A-B	388			388			
A-C	454			454			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.76	0.55	1.00	1.40	1.45			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.30	0.09	1.07	2.44	3.15			N/A	N/A

C-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
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17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	3.66	0.05	0.68	10.31	16.80			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	4.12	0.04	0.40	11.03	21.87			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.47	0.04	0.39	3.84	6.87			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.81	0.03	0.31	1.51	3.96			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2022 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Lower Bognor Road j/w Pagham Road	T-Junction	Two-way	39.67	F

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-27	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	486	100.000
B		✓	376	100.000
C		✓	783	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	199	267
	B	375	0	1
	C	782	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	2	3
	B	1	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	1.23	356.32	46.8	78.0	F
C-AB	0.00	3.84	0.0	208.2	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	283	411	0.689	275	2.0	25.195	F
C-AB	2	941	0.002	2	0.0	3.832	A
C-A	587			587			
A-B	150			150			
A-C	201			201			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	338	380	0.890	325	5.2	55.673	F
C-AB	3	1012	0.003	3	0.0	3.565	A
C-A	701			701			
A-B	179			179			
A-C	240			240			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	414	337	1.228	331	26.0	104.412	F
C-AB	5	1113	0.004	5	0.0	3.246	A
C-A	857			857			
A-B	219			219			
A-C	294			294			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	414	337	1.228	336	46.8	366.241	F
C-AB	5	1113	0.004	5	0.0	3.251	A
C-A	857			857			
A-B	219			219			
A-C	294			294			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	338	380	0.890	372	0.7	360.318	F
C-AB	3	1012	0.003	3	0.0	3.574	A
C-A	701			701			
A-B	179			179			
A-C	240			240			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	283	411	0.689	400	7.9	212.574	F
C-AB	2	941	0.002	2	0.0	3.836	A
C-A	587			587			
A-B	150			150			
A-C	201			201			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	2.02	0.11	1.42	4.22	5.66			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	5.23	0.18	2.76	12.33	16.67			N/A	N/A

C-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
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08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	25.98	9.11	23.60	41.89	48.35			N/A	N/A
C-AB	0.00	>199	>199	>199	>199			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	45.55	20.10	42.74	69.01	78.01			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	37.13	13.18	33.92	60.16	69.43			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	7.86	0.10	2.59	21.38	31.30			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2022 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Lower Bognor Road j/w Pagham Road	T-Junction	Two-way	24.36	C

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-19	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2022 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	1282	100.000
B		✓	226	100.000
C		✓	375	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	516	766
	B	226	0	0
	C	371	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	1	2
	B	0	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	1.65	266.79	14.2	59.1	F
C-AB	0.02	5.98	0.0	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	170	344	0.494	166	0.9	19.843	C
C-AB	6	608	0.009	6	0.0	5.974	A
C-A	277			277			
A-B	388			388			
A-C	577			577			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	203	299	0.679	199	1.9	34.698	D
C-AB	8	616	0.013	8	0.0	5.916	A
C-A	329			329			
A-B	464			464			
A-C	689			689			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	249	237	1.050	219	9.4	122.303	F
C-AB	13	631	0.020	12	0.0	5.814	A
C-A	400			400			
A-B	568			568			
A-C	843			843			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	249	237	1.050	229	14.2	205.896	F
C-AB	13	631	0.020	13	0.0	5.821	A
C-A	400			400			
A-B	568			568			
A-C	843			843			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	203	299	0.679	250	2.5	95.416	F
C-AB	8	616	0.013	8	0.0	5.928	A
C-A	329			329			
A-B	464			464			
A-C	689			689			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	170	344	0.494	176	1.0	22.087	C
C-AB	6	608	0.009	6	0.0	5.983	A
C-A	277			277			
A-B	388			388			
A-C	577			577			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.93	0.36	0.99	1.16	1.16			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.90	0.07	1.13	4.40	6.18			N/A	N/A

C-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
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17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	9.37	0.91	6.72	19.50	24.73			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	14.24	1.17	10.16	30.61	39.09			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	2.52	0.04	0.38	6.62	13.03			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.02	0.03	0.28	1.02	3.64			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2027, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Lower Bognor Road j/w Pagham Road	T-Junction	Two-way	84.64	F

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-23	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2027	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	396	100.000
B		✓	388	100.000
C		✓	612	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	206	190
	B	387	0	1
	C	611	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	2	5
	B	1	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	1.10	252.97	28.8	62.9	F
C-AB	0.00	4.20	0.0	208.2	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	292	445	0.656	285	1.8	21.651	C
C-AB	2	859	0.002	2	0.0	4.197	A
C-A	459			459			
A-B	155			155			
A-C	143			143			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	349	420	0.830	340	3.9	41.613	E
C-AB	2	912	0.002	2	0.0	3.954	A
C-A	548			548			
A-B	185			185			
A-C	171			171			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	427	387	1.105	373	17.4	126.014	F
C-AB	3	987	0.004	3	0.0	3.656	A
C-A	670			670			
A-B	227			227			
A-C	209			209			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	427	387	1.105	383	26.8	232.986	F
C-AB	3	987	0.004	3	0.0	3.661	A
C-A	670			670			
A-B	227			227			
A-C	209			209			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	349	420	0.830	406	14.2	195.450	F
C-AB	2	912	0.002	2	0.0	3.961	A
C-A	548			548			
A-B	185			185			
A-C	171			171			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	292	445	0.656	341	2.1	48.570	E
C-AB	2	859	0.002	2	0.0	4.202	A
C-A	459			459			
A-B	155			155			
A-C	143			143			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.78	0.40	1.10	2.80	3.44			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	3.89	0.14	1.86	9.15	12.50			N/A	N/A

C-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
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08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	17.40	3.10	14.44	32.36	39.18			N/A	N/A
C-AB	0.00	>199	>199	>199	>199			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	28.57	6.32	24.52	51.80	61.99			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	14.20	1.11	10.05	30.72	39.34			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	2.10	0.03	0.30	2.59	9.97			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2027, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Lower Bognor Road j/w Pagham Road	T-Junction	Two-way	11.16	B

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-12	Stream B-AC

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2027	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	1153	100.000
B		✓	233	100.000
C		✓	278	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	532	621
	B	233	0	0
	C	274	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	1	2
	B	0	0	0
	C	3	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	0.68	95.75	5.3	28.3	F
C-AB	0.02	6.44	0.0	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	175	382	0.459	172	0.8	16.870	C
C-AB	5	570	0.008	5	0.0	6.365	A
C-A	205			205			
A-B	401			401			
A-C	468			468			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	209	345	0.608	207	1.4	25.636	D
C-AB	6	568	0.011	6	0.0	6.402	A
C-A	244			244			
A-B	478			478			
A-C	558			558			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	257	293	0.876	244	4.5	62.722	F
C-AB	9	568	0.017	9	0.0	6.436	A
C-A	297			297			
A-B	586			586			
A-C	684			684			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	257	293	0.876	253	5.3	80.748	F
C-AB	9	568	0.017	9	0.0	6.444	A
C-A	297			297			
A-B	586			586			
A-C	684			684			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	209	345	0.608	224	1.7	32.736	D
C-AB	6	568	0.011	6	0.0	6.422	A
C-A	244			244			
A-B	478			478			
A-C	558			558			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	175	382	0.459	179	0.9	17.914	C
C-AB	5	570	0.008	5	0.0	6.374	A
C-A	205			205			
A-B	401			401			
A-C	468			468			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.82	0.55	1.00	1.40	1.45			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.45	0.09	1.10	2.86	3.85			N/A	N/A

C-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
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17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	4.52	0.07	1.43	12.42	18.82			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	5.30	0.05	0.50	15.19	26.34			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.66	0.04	0.38	4.37	8.13			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	0.88	0.03	0.30	1.36	4.29			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

2027 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Lower Bognor Road j/w Pagham Road	T-Junction	Two-way	115.48	F

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-30	Stream B-AC

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)
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	479	100.000
B		✓	388	100.000
C		✓	802	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	206	273
	B	387	0	1
	C	801	1	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	2	4
	B	1	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	1.23	516.04	56.1	90.0	F
C-AB	0.00	3.81	0.0	208.2	A
C-A					
A-B					
A-C					

Main Results for each time segment

07:45 - 08:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	292	406	0.719	283	2.3	27.446	D
C-AB	2	949	0.002	2	0.0	3.799	A
C-A	602			602			
A-B	155			155			
A-C	206			206			

08:00 - 08:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	349	375	0.931	332	6.6	86.143	F
C-AB	3	1022	0.003	3	0.0	3.530	A
C-A	718			718			
A-B	185			185			
A-C	245			245			

08:15 - 08:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	427	330	1.293	326	31.7	235.318	F
C-AB	5	1126	0.005	5	0.0	3.209	A
C-A	878			878			
A-B	227			227			
A-C	301			301			

08:30 - 08:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	427	330	1.293	330	56.1	475.836	F
C-AB	5	1126	0.005	5	0.0	3.213	A
C-A	878			878			
A-B	227			227			
A-C	301			301			

08:45 - 09:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	349	375	0.931	368	51.3	515.038	F
C-AB	3	1022	0.003	3	0.0	3.535	A
C-A	718			718			
A-B	185			185			
A-C	245			245			

09:00 - 09:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	292	406	0.719	399	24.7	348.464	F
C-AB	2	949	0.002	2	0.0	3.805	A
C-A	602			602			
A-B	155			155			
A-C	206			206			

Queue Variation Results for each time segment

07:45 - 08:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	2.29	0.06	0.95	5.91	8.86			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:00 - 08:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	6.57	0.19	3.39	15.92	21.72			N/A	N/A

C-AB	0.00	0.00	0.25	0.45	0.48			N/A	N/A
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08:15 - 08:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	31.74	12.68	29.34	49.37	56.30			N/A	N/A
C-AB	0.00	>199	>199	>199	>199			N/A	N/A

08:30 - 08:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	56.13	28.51	53.53	80.85	89.96			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

08:45 - 09:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	51.35	21.56	47.95	79.25	90.02			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

09:00 - 09:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	24.70	4.64	20.72	46.06	55.70			N/A	N/A
C-AB	0.00	0.00	0.00	0.00	0.00			N/A	N/A

2027 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Major road direction	Junction Delay (s)	Junction LOS
1	Lower Bognor Road j/w Pagham Road	T-Junction	Two-way	32.70	D

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	-21	Stream B-AC

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)
D8	2027 + CUMULATIVE	PM	ONE HOUR	16:45	18:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
A		✓	1316	100.000
B		✓	233	100.000
C		✓	383	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		A	B	C
	A	0	532	784
	B	233	0	0
	C	379	4	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		A	B	C
	A	0	1	2
	B	0	0	0
	C	2	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
B-AC	1.13	274.87	20.1	45.2	F
C-AB	0.02	5.98	0.0	0.5	A
C-A					
A-B					
A-C					

Main Results for each time segment

16:45 - 17:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	175	339	0.518	171	1.0	21.032	C
C-AB	6	608	0.009	6	0.0	5.977	A
C-A	283			283			
A-B	401			401			
A-C	590			590			

17:00 - 17:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	209	293	0.716	205	2.2	39.601	F
C-AB	8	616	0.013	8	0.0	5.916	A
C-A	336			336			
A-B	478			478			
A-C	705			705			

17:15 - 17:30

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	257	229	1.121	216	12.3	151.648	F
C-AB	13	632	0.021	13	0.0	5.810	A
C-A	409			409			
A-B	586			586			
A-C	863			863			

17:30 - 17:45

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	257	229	1.121	225	20.1	274.886	F
C-AB	13	632	0.021	13	0.0	5.817	A
C-A	409			409			
A-B	586			586			
A-C	863			863			

17:45 - 18:00

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	209	293	0.716	275	3.7	165.310	F
C-AB	8	616	0.013	8	0.0	5.931	A
C-A	336			336			
A-B	478			478			
A-C	705			705			

18:00 - 18:15

Stream	Total Demand (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
B-AC	175	339	0.518	186	1.1	24.916	C
C-AB	6	608	0.009	6	0.0	5.984	A
C-A	283			283			
A-B	401			401			
A-C	590			590			

Queue Variation Results for each time segment

16:45 - 17:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.02	0.17	1.02	1.46	1.78			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

17:00 - 17:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	2.20	0.08	1.20	5.30	7.56			N/A	N/A

C-AB	0.01	0.01	0.25	0.45	0.48			N/A	N/A
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17:15 - 17:30

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	12.25	1.79	9.88	23.06	28.13			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:30 - 17:45

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	20.14	3.75	16.85	37.37	45.17			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

17:45 - 18:00

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	3.70	0.05	0.47	10.44	17.96			N/A	N/A
C-AB	0.02	0.00	0.00	0.02	0.02			N/A	N/A

18:00 - 18:15

Stream	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-AC	1.13	0.03	0.28	1.13	3.42			N/A	N/A
C-AB	0.01	0.00	0.00	0.01	0.01			N/A	N/A

Junctions 9
ARCADY 9 - Roundabout Module
Version: 9.0.1.4646 [] © Copyright TRL Limited, 2016
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Filename: 1616 B2145 B2166.j9

Path: C:\Users\Fiona\OneDrive - Highgate Transportation\1600 - Projects\1616 - Summer Lane, Pagham\Cumulative Impact\Modelling

Report generation date: 21/12/2016 23:48:41

»2022, AM
 »2022, PM
 »2022 + CUMULATIVE, AM
 »2022 + CUMULATIVE, PM
 »2027, AM
 »2027, PM
 »2027 + CUMULATIVE, AM
 »2027 + CUMULATIVE, PM

Summary of junction performance

	AM								PM							
	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity	Queue (Veh)	95% Queue (Veh)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity
	2022															
Arm 1	0.8	2.4	4.80	0.44	A	7.86	A	20 % [Arm 2]	3.2	12.8	11.05	0.77	B	7.57	A	18 % [Arm 1]
Arm 2	3.0	10.8	10.44	0.75	B				1.1	1.7	5.82	0.52	A			
Arm 3	1.5	1.7	6.87	0.60	A				0.8	2.1	4.09	0.45	A			
	2022 + CUMULATIVE															
Arm 1	0.9	1.9	5.15	0.48	A	12.15	B	7 % [Arm 2]	5.5	28.5	17.47	0.85	C	10.80	B	8 % [Arm 1]
Arm 2	5.9	30.4	18.30	0.86	C				1.4	1.6	6.69	0.58	A			
Arm 3	1.9	2.9	8.79	0.66	A				0.9	1.8	4.45	0.48	A			
	2027															
Arm 1	0.8	2.2	4.98	0.46	A	8.69	A	16 % [Arm 2]	3.8	17.3	12.63	0.80	B	8.38	A	14 % [Arm 1]
Arm 2	3.5	14.9	11.82	0.78	B				1.2	1.5	6.12	0.54	A			
Arm 3	1.7	2.0	7.48	0.63	A				0.9	1.9	4.20	0.47	A			
	2027 + CUMULATIVE															
Arm 1	1.0	1.7	5.41	0.50	A	14.57	B	4 % [Arm 2]	6.6	33.6	20.66	0.88	C	12.34	B	5 % [Arm 1]
Arm 2	7.5	35.7	22.95	0.88	C				1.5	1.8	7.09	0.60	A			
Arm 3	2.2	5.2	9.78	0.69	A				1.0	1.6	4.58	0.49	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. Junction LOS and Junction Delay are demand-weighted averages. Network Residual Capacity indicates the amount by which network flow could be increased before a user-definable threshold (see Analysis Options) is met.

File summary

File Description

Title	(untitled)
Location	
Site number	
Date	05/12/2016
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	

Enumerator	DESKTOP-MD9GBJC\Fiona
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	Veh	Veh	perHour	s	-Min	perMin

Analysis Options

Calculate Queue Percentiles	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
✓	✓	Delay	0.85	36.00	20.00

Demand Set Summary

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15
D2	2022	PM	ONE HOUR	14:45	16:15	15
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D4	2022 + CUMULATIVE	PM	ONE HOUR	14:45	16:15	15
D5	2027	AM	ONE HOUR	07:45	09:15	15
D6	2027	PM	ONE HOUR	14:45	16:15	15
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15
D8	2027 + CUMULATIVE	PM	ONE HOUR	14:45	16:15	15

Analysis Set Details

ID	Network flow scaling factor (%)
A1	100.000

2022, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2145 jw B2166	Standard Roundabout	7.86	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	20	Arm 2

Arms

Arms

Arm	Name	Description
1	B2145 North	
2	B2166	
3	untitled	

Roundabout Geometry

Arm	V - Approach road half-width (m)	E - Entry width (m)	I' - Effective flare length (m)	R - Entry radius (m)	D - Inscribed circle diameter (m)	PHI - Conflict (entry) angle (deg)	Exit only
1	3.30	7.10	11.4	46.0	15.0	8.0	
2	3.20	7.80	16.0	24.0	15.0	37.0	
3	4.10	7.70	9.0	65.0	15.0	10.0	

Slope / Intercept / Capacity

Roundabout Slope and Intercept used in model

Arm	Final slope	Final intercept (PCU/hr)
1	0.703	1719
2	0.654	1668
3	0.740	1898

The slope and intercept shown above include any corrections and adjustments.

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D1	2022	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	543	100.000
2		✓	951	100.000
3		✓	723	100.000

Origin-Destination Data

Demand (Veh/hr)

	To			
	1	2	3	
From	1	0	252	291
	2	612	0	339
	3	384	339	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
	1	2	3	
From	1	0	7	8
	2	4	0	3
	3	6	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
1	0.44	4.80	0.8	2.4	A
2	0.75	10.44	3.0	10.8	B
3	0.60	6.87	1.5	1.7	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	409	254	1427	0.286	407	0.4	3.524	A
2	716	218	1461	0.490	712	1.0	4.786	A
3	544	458	1478	0.368	542	0.6	3.837	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	488	304	1394	0.350	488	0.5	3.970	A
2	855	261	1431	0.597	853	1.5	6.200	A
3	650	549	1411	0.461	649	0.8	4.714	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	598	372	1348	0.443	597	0.8	4.786	A
2	1047	320	1391	0.753	1041	2.9	10.114	B
3	796	670	1322	0.602	793	1.5	6.775	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	598	373	1347	0.444	598	0.8	4.802	A
2	1047	320	1391	0.753	1047	3.0	10.436	B
3	796	674	1320	0.603	796	1.5	6.871	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	488	306	1393	0.351	489	0.5	3.988	A
2	855	262	1431	0.598	861	1.5	6.378	A
3	650	554	1408	0.462	653	0.9	4.782	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	409	256	1426	0.287	409	0.4	3.540	A
2	716	219	1460	0.490	718	1.0	4.866	A
3	544	462	1475	0.369	545	0.6	3.877	A

Queue Variation Results for each time segment

07:45 - 08:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.40	0.00	0.00	0.40	0.40			N/A	N/A
2	0.95	0.55	1.00	1.40	1.45			N/A	N/A
3	0.58	0.55	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.54	0.54	1.00	1.40	1.45			N/A	N/A
2	1.46	0.05	0.88	3.53	5.22			N/A	N/A
3	0.85	0.08	0.81	1.28	1.72			N/A	N/A

08:15 - 08:30

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.79	0.03	0.25	0.79	0.79			N/A	N/A
2	2.91	0.03	0.29	2.91	10.79			N/A	N/A
3	1.49	0.03	0.26	1.49	1.49			N/A	N/A

08:30 - 08:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.79	0.03	0.28	0.79	2.44			N/A	N/A
2	2.98	0.03	0.27	2.98	4.04			N/A	N/A
3	1.50	0.03	0.27	1.50	1.50			N/A	N/A

08:45 - 09:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.54	0.54	1.00	1.40	1.45			N/A	N/A
2	1.51	0.06	0.87	3.50	4.97			N/A	N/A
3	0.87	0.14	0.93	1.33	1.33			N/A	N/A

09:00 - 09:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.40	0.00	0.00	0.40	0.40			N/A	N/A
2	0.97	0.04	0.41	2.37	3.82			N/A	N/A
3	0.59	0.05	0.53	1.35	1.45			N/A	N/A

2022, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2145 jw B2166	Standard Roundabout	7.57	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	18	Arm 1

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D2	2022	PM	ONE HOUR	14:45	16:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	974	100.000
2		✓	607	100.000
3		✓	659	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		1	2	3
	1	0	496	478
	2	277	0	330
	3	292	367	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		1	2	3
	1	0	3	2
	2	4	0	1
	3	7	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
1	0.77	11.05	3.2	12.8	8

2	0.52	5.82	1.1	1.7	A
3	0.45	4.09	0.8	2.1	A

Main Results for each time segment

14:45 - 15:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	733	275	1486	0.493	729	1.0	4.734	A
2	457	358	1396	0.327	455	0.5	3.817	A
3	496	208	1677	0.296	494	0.4	3.039	A

15:00 - 15:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	876	330	1449	0.604	873	1.5	6.234	A
2	546	429	1350	0.404	545	0.7	4.468	A
3	592	249	1647	0.360	592	0.6	3.410	A

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	1072	403	1398	0.767	1066	3.1	10.645	B
2	668	523	1289	0.519	667	1.1	5.776	A
3	726	304	1606	0.452	725	0.8	4.080	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	1072	404	1397	0.768	1072	3.2	11.045	B
2	668	526	1287	0.519	668	1.1	5.822	A
3	726	305	1605	0.452	726	0.8	4.092	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	876	330	1448	0.605	882	1.6	6.434	A
2	546	433	1347	0.405	547	0.7	4.509	A
3	592	250	1646	0.360	593	0.6	3.425	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	733	277	1485	0.494	736	1.0	4.815	A
2	457	361	1394	0.328	458	0.5	3.848	A
3	496	209	1676	0.296	497	0.4	3.052	A

Queue Variation Results for each time segment

14:45 - 15:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.96	0.55	1.00	1.40	1.45			N/A	N/A
2	0.48	0.00	0.00	0.48	0.48			N/A	N/A
3	0.42	0.00	0.00	0.42	0.42			N/A	N/A

15:00 - 15:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.50	0.05	0.62	3.71	5.60			N/A	N/A
2	0.67	0.10	0.83	1.37	1.44			N/A	N/A
3	0.56	0.08	0.76	1.35	1.43			N/A	N/A

15:15 - 15:30

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Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	3.14	0.03	0.29	3.14	12.83			N/A	N/A
2	1.06	0.03	0.26	1.06	1.06			N/A	N/A
3	0.82	0.03	0.25	0.82	0.82			N/A	N/A

15:30 - 15:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	3.22	0.03	0.27	3.22	5.38			N/A	N/A
2	1.07	0.03	0.27	1.07	1.68			N/A	N/A
3	0.82	0.03	0.27	0.82	2.10			N/A	N/A

15:45 - 16:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.56	0.06	0.81	3.72	5.44			N/A	N/A
2	0.69	0.23	0.94	1.39	1.44			N/A	N/A
3	0.57	0.55	1.00	1.40	1.45			N/A	N/A

16:00 - 16:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.99	0.04	0.39	2.44	4.06			N/A	N/A
2	0.49	0.04	0.44	1.27	1.39			N/A	N/A
3	0.42	0.00	0.00	0.42	0.42			N/A	N/A

2022 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2145 jw B2166	Standard Roundabout	12.15	B

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	7	Arm 2

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D3	2022 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	589	100.000
2		✓	1101	100.000
3		✓	733	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		1	2	3
	1	0	304	285
	2	748	0	353
	3	384	349	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		1	2	3
	1	0	6	8
	2	3	0	3
	3	6	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
1	0.48	5.15	0.9	1.9	A

2	0.85	18.30	5.9	30.4	C
3	0.66	8.79	1.9	2.9	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	443	262	1430	0.310	442	0.4	3.636	A
2	829	214	1473	0.563	824	1.3	5.503	A
3	552	560	1408	0.392	549	0.6	4.181	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	529	313	1395	0.380	529	0.6	4.153	A
2	990	256	1444	0.685	986	2.1	7.807	A
3	659	670	1327	0.496	658	1.0	5.364	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	648	383	1348	0.481	647	0.9	5.126	A
2	1212	313	1405	0.863	1198	5.6	16.451	C
3	807	814	1222	0.660	803	1.9	8.519	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	648	384	1347	0.481	648	0.9	5.152	A
2	1212	314	1404	0.863	1211	5.9	18.303	C
3	807	823	1216	0.664	807	1.9	8.787	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	529	316	1394	0.380	531	0.6	4.179	A
2	990	257	1443	0.686	1004	2.2	8.459	A
3	659	682	1318	0.500	663	1.0	5.522	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	443	263	1429	0.310	444	0.5	3.660	A
2	829	215	1472	0.563	833	1.3	5.663	A
3	552	566	1403	0.393	553	0.7	4.241	A

Queue Variation Results for each time segment

07:45 - 08:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.45	0.00	0.00	0.45	0.45			N/A	N/A
2	1.27	0.56	1.12	1.49	1.75			N/A	N/A
3	0.64	0.55	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.61	0.10	0.82	1.36	1.43			N/A	N/A
2	2.12	0.05	0.50	5.70	9.04			N/A	N/A
3	0.97	0.07	0.79	1.80	2.44			N/A	N/A

08:15 - 08:30

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Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.92	0.03	0.26	0.92	0.92			N/A	N/A
2	5.56	0.04	0.37	13.15	30.40			N/A	N/A
3	1.89	0.03	0.27	1.89	2.90			N/A	N/A

08:30 - 08:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.92	0.03	0.27	0.92	1.92			N/A	N/A
2	5.89	0.03	0.31	5.89	26.56			N/A	N/A
3	1.94	0.03	0.27	1.94	2.33			N/A	N/A

08:45 - 09:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.62	0.55	1.00	1.40	1.45			N/A	N/A
2	2.24	0.05	0.45	6.14	10.32			N/A	N/A
3	1.01	0.09	0.93	1.67	1.98			N/A	N/A

09:00 - 09:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.45	0.03	0.35	1.14	1.32			N/A	N/A
2	1.31	0.03	0.33	2.93	6.67			N/A	N/A
3	0.65	0.05	0.46	1.06	1.68			N/A	N/A

2022 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2145 jw B2166	Standard Roundabout	10.80	S

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	8	Arm 1

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D4	2022 + CUMULATIVE	PM	ONE HOUR	14:45	16:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	1073	100.000
2		✓	688	100.000
3		✓	676	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		1	2	3
	1	0	601	472
	2	346	0	342
	3	292	384	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		1	2	3
	1	0	3	2
	2	3	0	1
	3	7	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
1	6.85	17.47	5.5	28.5	C

2	0.58	6.69	1.4	1.6	A
3	0.48	4.45	0.9	1.8	A

Main Results for each time segment

14:45 - 15:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	808	288	1477	0.547	803	1.2	5.307	A
2	518	353	1404	0.369	516	0.6	4.041	A
3	509	259	1642	0.310	507	0.4	3.163	A

15:00 - 15:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	965	345	1437	0.671	961	2.0	7.511	A
2	618	423	1359	0.455	618	0.8	4.852	A
3	608	311	1604	0.379	607	0.6	3.608	A

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	1181	422	1384	0.854	1169	5.2	15.835	C
2	758	514	1299	0.583	755	1.4	6.595	A
3	744	380	1553	0.479	743	0.9	4.437	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	1181	423	1384	0.854	1180	5.5	17.465	C
2	758	519	1296	0.585	757	1.4	6.686	A
3	744	381	1552	0.479	744	0.9	4.454	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	965	346	1437	0.671	978	2.1	8.074	A
2	618	430	1354	0.457	621	0.8	4.924	A
3	608	312	1603	0.379	609	0.6	3.624	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	808	289	1476	0.547	811	1.2	5.445	A
2	518	357	1402	0.369	519	0.6	4.083	A
3	509	261	1641	0.310	510	0.5	3.186	A

Queue Variation Results for each time segment

14:45 - 15:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.19	0.56	1.00	1.19	1.50			N/A	N/A
2	0.58	0.55	1.00	1.40	1.45			N/A	N/A
3	0.45	0.00	0.00	0.45	0.45			N/A	N/A

15:00 - 15:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.99	0.05	0.49	5.31	8.44			N/A	N/A
2	0.83	0.08	0.84	1.04	1.57			N/A	N/A
3	0.61	0.09	0.81	1.36	1.43			N/A	N/A

15:15 - 15:30

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Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	5.21	0.04	0.36	11.68	28.47			N/A	N/A
2	1.38	0.03	0.26	1.38	1.38			N/A	N/A
3	0.91	0.03	0.26	0.91	0.91			N/A	N/A

15:30 - 15:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	5.49	0.03	0.30	5.49	23.50			N/A	N/A
2	1.39	0.03	0.27	1.39	1.39			N/A	N/A
3	0.92	0.03	0.27	0.92	1.77			N/A	N/A

15:45 - 16:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	2.09	0.05	0.46	5.69	9.41			N/A	N/A
2	0.85	0.16	0.94	1.03	1.03			N/A	N/A
3	0.61	0.55	1.00	1.40	1.45			N/A	N/A

16:00 - 16:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.23	0.03	0.33	2.80	6.20			N/A	N/A
2	0.59	0.05	0.58	1.34	1.43			N/A	N/A
3	0.45	0.00	0.00	0.45	0.45			N/A	N/A

2027, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2145 jw B2166	Standard Roundabout	8.69	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	16	Arm 2

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D5	2027	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	560	100.000
2		✓	982	100.000
3		✓	747	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		1	2	3
	1	0	260	300
	2	632	0	350
	3	397	350	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		1	2	3
	1	0	7	8
	2	4	0	3
	3	6	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
1	0.46	4.98	0.8	2.2	A

2	0.78	11.82	3.5	14.9	B
3	0.63	7.48	1.7	2.0	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	422	262	1422	0.297	420	0.4	3.586	A
2	739	225	1456	0.508	735	1.0	4.968	A
3	562	473	1467	0.383	560	0.6	3.958	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	503	314	1387	0.363	503	0.6	4.068	A
2	883	269	1426	0.619	880	1.6	6.574	A
3	672	567	1398	0.480	670	0.9	4.937	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	617	384	1340	0.460	615	0.8	4.961	A
2	1081	330	1385	0.781	1074	3.4	11.334	B
3	822	691	1307	0.629	819	1.7	7.343	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	617	385	1339	0.460	617	0.8	4.981	A
2	1081	330	1384	0.781	1081	3.5	11.822	B
3	822	696	1304	0.631	822	1.7	7.479	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	503	316	1386	0.363	505	0.6	4.089	A
2	883	270	1425	0.619	890	1.7	6.813	A
3	672	573	1394	0.482	675	0.9	5.025	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	422	264	1421	0.297	422	0.4	3.606	A
2	739	226	1455	0.508	742	1.0	5.062	A
3	562	477	1464	0.384	564	0.6	4.005	A

Queue Variation Results for each time segment

07:45 - 08:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.42	0.00	0.00	0.42	0.42			N/A	N/A
2	1.02	0.55	1.00	1.40	1.45			N/A	N/A
3	0.62	0.55	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.57	0.08	0.79	1.36	1.43			N/A	N/A
2	1.60	0.05	0.62	3.97	6.03			N/A	N/A
3	0.91	0.07	0.81	1.59	1.96			N/A	N/A

08:15 - 08:30

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Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.84	0.03	0.25	0.84	0.84			N/A	N/A
2	3.37	0.03	0.30	3.37	14.92			N/A	N/A
3	1.66	0.03	0.27	1.66	1.66			N/A	N/A

08:30 - 08:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.85	0.03	0.27	0.85	2.23			N/A	N/A
2	3.47	0.03	0.28	3.47	6.86			N/A	N/A
3	1.69	0.03	0.27	1.69	1.69			N/A	N/A

08:45 - 09:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.57	0.55	1.00	1.40	1.45			N/A	N/A
2	1.66	0.06	0.74	4.08	6.11			N/A	N/A
3	0.94	0.12	0.94	1.34	1.73			N/A	N/A

09:00 - 09:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.42	0.00	0.00	0.42	0.42			N/A	N/A
2	1.04	0.04	0.38	2.63	4.57			N/A	N/A
3	0.63	0.05	0.51	1.23	1.23			N/A	N/A

2027, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2145 jw B2166	Standard Roundabout	8.38	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	14	Arm 1

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)
D6	2027	PM	ONE HOUR	14:45	16:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	1004	100.000
2		✓	625	100.000
3		✓	679	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		1	2	3
	1	0	511	493
	2	285	0	340
	3	301	378	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		1	2	3
	1	0	3	2
	2	4	0	1
	3	6	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
1	0.80	12.63	3.8	17.3	B

2	0.54	6.12	1.2	1.5	A
3	0.47	4.20	0.9	1.9	A

Main Results for each time segment

14:45 - 15:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	756	284	1481	0.511	752	1.0	4.912	A
2	471	369	1389	0.339	468	0.5	3.902	A
3	511	214	1680	0.304	509	0.4	3.072	A

15:00 - 15:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	903	339	1442	0.626	900	1.6	6.614	A
2	562	442	1341	0.419	561	0.7	4.608	A
3	610	256	1649	0.370	610	0.6	3.463	A

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	1105	416	1389	0.796	1097	3.7	12.011	B
2	688	539	1278	0.538	686	1.1	6.064	A
3	748	313	1606	0.466	746	0.9	4.183	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	1105	416	1389	0.796	1105	3.8	12.630	B
2	688	543	1276	0.539	688	1.2	6.125	A
3	748	314	1605	0.466	748	0.9	4.196	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	903	340	1441	0.626	911	1.7	6.891	A
2	562	447	1338	0.420	564	0.7	4.660	A
3	610	257	1648	0.370	612	0.6	3.479	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	756	285	1480	0.511	758	1.1	5.009	A
2	471	372	1387	0.339	471	0.5	3.937	A
3	511	215	1679	0.304	512	0.4	3.085	A

Queue Variation Results for each time segment

14:45 - 15:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.03	0.55	1.00	1.40	1.45			N/A	N/A
2	0.51	0.51	1.00	1.40	1.45			N/A	N/A
3	0.44	0.00	0.00	0.44	0.44			N/A	N/A

15:00 - 15:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.64	0.05	0.56	4.18	6.45			N/A	N/A
2	0.71	0.09	0.83	1.39	1.46			N/A	N/A
3	0.58	0.09	0.79	1.36	1.43			N/A	N/A

15:15 - 15:30

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Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	3.66	0.03	0.31	4.25	17.28			N/A	N/A
2	1.15	0.03	0.26	1.15	1.15			N/A	N/A
3	0.86	0.03	0.25	0.86	0.86			N/A	N/A

15:30 - 15:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	3.77	0.03	0.28	3.77	9.06			N/A	N/A
2	1.16	0.03	0.27	1.16	1.53			N/A	N/A
3	0.87	0.03	0.27	0.87	1.88			N/A	N/A

15:45 - 16:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.71	0.05	0.65	4.34	6.60			N/A	N/A
2	0.73	0.21	0.93	1.39	1.44			N/A	N/A
3	0.59	0.55	1.00	1.40	1.45			N/A	N/A

16:00 - 16:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.06	0.04	0.37	2.65	4.79			N/A	N/A
2	0.52	0.05	0.49	1.30	1.40			N/A	N/A
3	0.44	0.00	0.00	0.44	0.44			N/A	N/A

2027 + CUMULATIVE, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2145 jw B2166	Standard Roundabout	14.57	S

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	4	Arm 2

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)
D7	2027 + CUMULATIVE	AM	ONE HOUR	07:45	09:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	606	100.000
2		✓	1132	100.000
3		✓	757	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		1	2	3
	1	0	312	294
	2	768	0	364
	3	397	360	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		1	2	3
	1	0	6	9
	2	3	0	3
	3	6	3	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
1	0.50	5.41	1.0	1.7	A

2	0.86	22.95	7.5	39.7	C
3	0.69	9.78	2.2	5.2	A

Main Results for each time segment

07:45 - 08:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	456	270	1418	0.322	454	0.5	3.730	A
2	852	220	1467	0.581	847	1.4	5.755	A
3	570	574	1397	0.408	567	0.7	4.325	A

08:00 - 08:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	545	323	1382	0.394	544	0.6	4.291	A
2	1018	264	1437	0.708	1014	2.4	8.429	A
3	681	688	1314	0.518	679	1.1	5.651	A

08:15 - 08:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	667	394	1334	0.500	666	1.0	5.376	A
2	1246	323	1396	0.893	1228	6.9	19.614	C
3	833	833	1208	0.690	829	2.2	9.382	A

08:30 - 08:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	667	396	1333	0.501	667	1.0	5.408	A
2	1246	324	1395	0.893	1244	7.5	22.946	C
3	833	844	1201	0.694	833	2.2	9.781	A

08:45 - 09:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	545	326	1380	0.395	546	0.7	4.322	A
2	1018	265	1436	0.709	1038	2.5	9.459	A
3	681	704	1303	0.522	685	1.1	5.869	A

09:00 - 09:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	456	272	1417	0.322	457	0.5	3.753	A
2	852	222	1466	0.581	857	1.4	5.950	A
3	570	581	1392	0.409	572	0.7	4.397	A

Queue Variation Results for each time segment

07:45 - 08:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.47	0.00	0.00	0.47	0.47			N/A	N/A
2	1.37	0.57	1.25	1.72	1.87			N/A	N/A
3	0.68	0.55	1.00	1.40	1.45			N/A	N/A

08:00 - 08:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.65	0.10	0.83	1.37	1.43			N/A	N/A
2	2.35	0.05	0.51	6.42	10.30			N/A	N/A
3	1.06	0.06	0.76	2.06	2.91			N/A	N/A

08:15 - 08:30

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Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.99	0.03	0.26	0.99	0.99			N/A	N/A
2	6.92	0.04	0.43	19.03	37.01			N/A	N/A
3	2.15	0.03	0.28	2.15	5.20			N/A	N/A

08:30 - 08:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.00	0.03	0.27	1.00	1.71			N/A	N/A
2	7.51	0.03	0.34	13.37	39.74			N/A	N/A
3	2.22	0.03	0.27	2.22	3.19			N/A	N/A

08:45 - 09:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.66	0.27	0.95	1.39	1.45			N/A	N/A
2	2.51	0.04	0.43	6.91	12.10			N/A	N/A
3	1.11	0.08	0.93	1.95	2.69			N/A	N/A

09:00 - 09:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	0.48	0.04	0.41	1.25	1.37			N/A	N/A
2	1.41	0.03	0.32	2.83	7.30			N/A	N/A
3	0.70	0.04	0.43	1.43	2.00			N/A	N/A

2027 + CUMULATIVE, PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Queue variations	Analysis Options	Queue percentiles may be unreliable if the mean queue in any time segment is very low or very high.

Junction Network

Junctions

Junction	Name	Junction Type	Junction Delay (s)	Junction LOS
1	B2145 jw B2166	Standard Roundabout	12.34	B

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	5	Arm 1

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)
D8	2027 + CUMULATIVE	PM	ONE HOUR	14:45	16:15	15

Vehicle mix source	PCU Factor for a HV (PCU)
HV Percentages	2.00

Demand overview (Traffic)

Arm	Linked arm	Use O-D data	Average Demand (Veh/hr)	Scaling Factor (%)
1		✓	1103	100.000
2		✓	706	100.000
3		✓	696	100.000

Origin-Destination Data

Demand (Veh/hr)

		To		
From		1	2	3
	1	0	616	487
	2	354	0	352
	3	301	395	0

Vehicle Mix

Heavy Vehicle Percentages

		To		
From		1	2	3
	1	0	2	2
	2	3	0	1
	3	6	1	0

Results

Results Summary for whole modelled period

Arm	Max RFC	Max delay (s)	Max Queue (Veh)	Max 95th percentile Queue (Veh)	Max LOS
1	6.88	20.66	6.6	33.8	C

2	0.60	7.09	1.5	1.8	A
3	0.49	4.58	1.0	1.6	A

Main Results for each time segment

14:45 - 15:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	830	296	1479	0.561	825	1.3	5.466	A
2	532	364	1397	0.380	529	0.6	4.136	A
3	524	265	1644	0.319	522	0.5	3.202	A

15:00 - 15:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	992	355	1438	0.689	988	2.2	7.928	A
2	635	436	1350	0.470	634	0.9	5.018	A
3	626	318	1606	0.390	625	0.6	3.669	A

15:15 - 15:30

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	1214	434	1383	0.878	1198	6.2	18.083	C
2	777	529	1289	0.603	775	1.5	6.966	A
3	766	389	1553	0.493	765	1.0	4.559	A

15:30 - 15:45

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	1214	435	1383	0.878	1213	6.6	20.656	C
2	777	535	1285	0.605	777	1.5	7.086	A
3	766	390	1552	0.494	766	1.0	4.578	A

15:45 - 16:00

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	992	356	1438	0.690	1009	2.3	8.718	A
2	635	445	1344	0.472	637	0.9	5.112	A
3	626	319	1604	0.390	627	0.6	3.690	A

16:00 - 16:15

Arm	Total Demand (Veh/hr)	Circulating flow (Veh/hr)	Capacity (Veh/hr)	RFC	Throughput (Veh/hr)	End queue (Veh)	Delay (s)	LOS
1	830	298	1478	0.562	834	1.3	5.627	A
2	532	368	1394	0.381	533	0.6	4.184	A
3	524	267	1643	0.319	525	0.5	3.222	A

Queue Variation Results for each time segment

14:45 - 15:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.26	0.56	1.13	1.53	1.77			N/A	N/A
2	0.61	0.55	1.00	1.40	1.45			N/A	N/A
3	0.47	0.00	0.00	0.47	0.47			N/A	N/A

15:00 - 15:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	2.16	0.05	0.49	5.84	9.40			N/A	N/A
2	0.88	0.08	0.84	1.37	1.78			N/A	N/A
3	0.63	0.09	0.81	1.36	1.43			N/A	N/A

15:15 - 15:30

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Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	6.18	0.04	0.40	16.01	33.57			N/A	N/A
2	1.49	0.03	0.26	1.49	1.49			N/A	N/A
3	0.96	0.03	0.26	0.96	0.96			N/A	N/A

15:30 - 15:45

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	6.62	0.03	0.32	9.19	32.74			N/A	N/A
2	1.51	0.03	0.27	1.51	1.51			N/A	N/A
3	0.97	0.03	0.27	0.97	1.56			N/A	N/A

15:45 - 16:00

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	2.29	0.04	0.44	6.28	10.77			N/A	N/A
2	0.90	0.14	0.95	1.01	1.53			N/A	N/A
3	0.64	0.55	1.00	1.40	1.45			N/A	N/A

16:00 - 16:15

Arm	Mean (Veh)	Q05 (Veh)	Q50 (Veh)	Q90 (Veh)	Q95 (Veh)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
1	1.30	0.03	0.32	2.72	6.68			N/A	N/A
2	0.62	0.05	0.58	1.37	1.47			N/A	N/A
3	0.47	0.04	0.38	1.21	1.36			N/A	N/A

Basic Results Summary

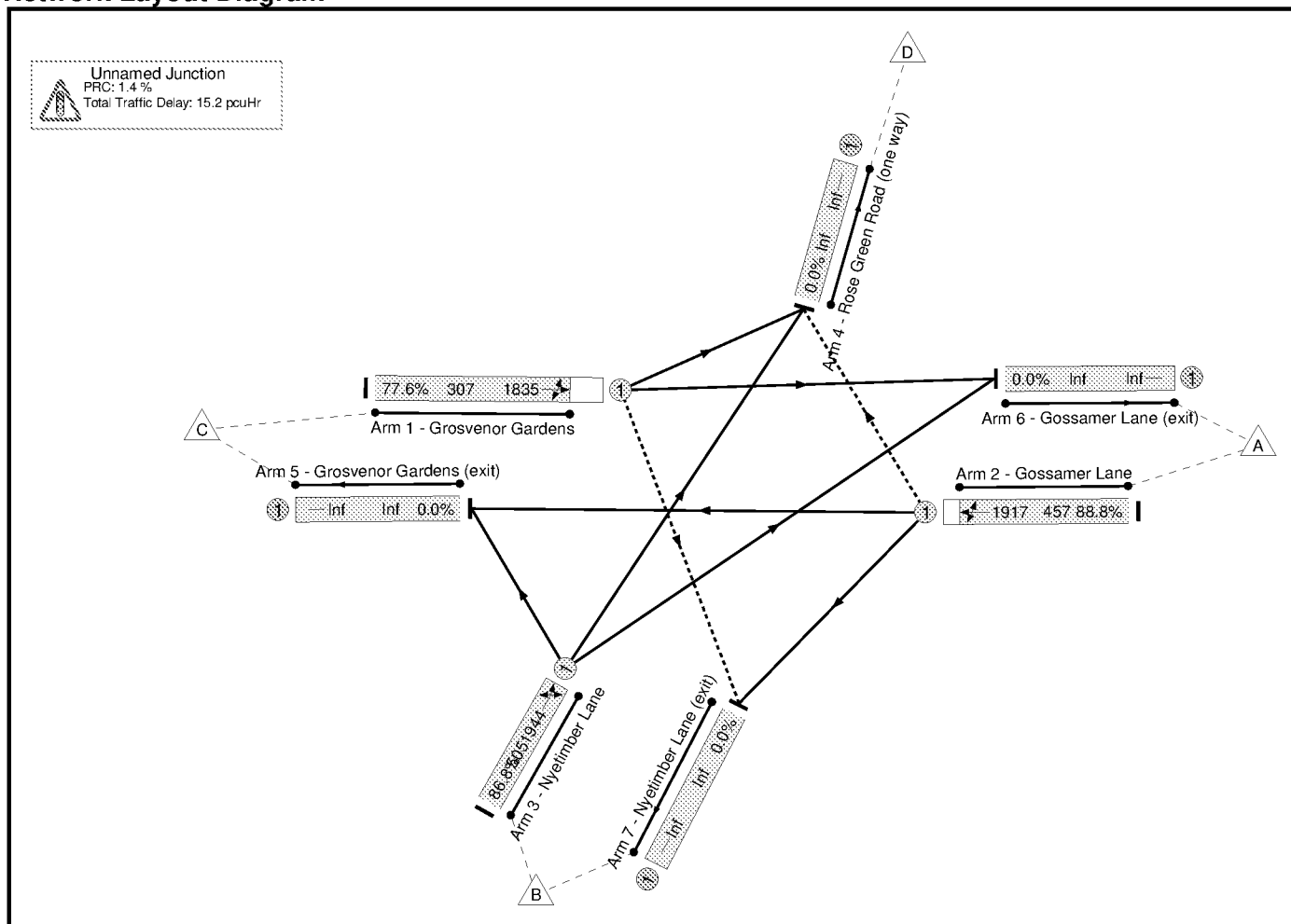
Basic Results Summary

User and Project Details

Project:	Land West of Hook Lane, Pagham
Title:	Grosvenor Gdns-Gossamer La-Nyetimber La-Rose Green Rd
Location:	Grosvenor Gdns-Gossamer La-Nyetimber La-Rose Green Rd, Bognor Regis
File name:	1616 Nyetimber Lane Gossamer Lane.lsg3x
Author:	F Bennett
Company:	Highgate Transportation Ltd
Address:	42 Trianlge West, Park Street, Bristol
Notes:	

Scenario 1: '2022 AM ' (FG1: '2022 AM', Plan 2: 'Double Cycle')

Network Layout Diagram

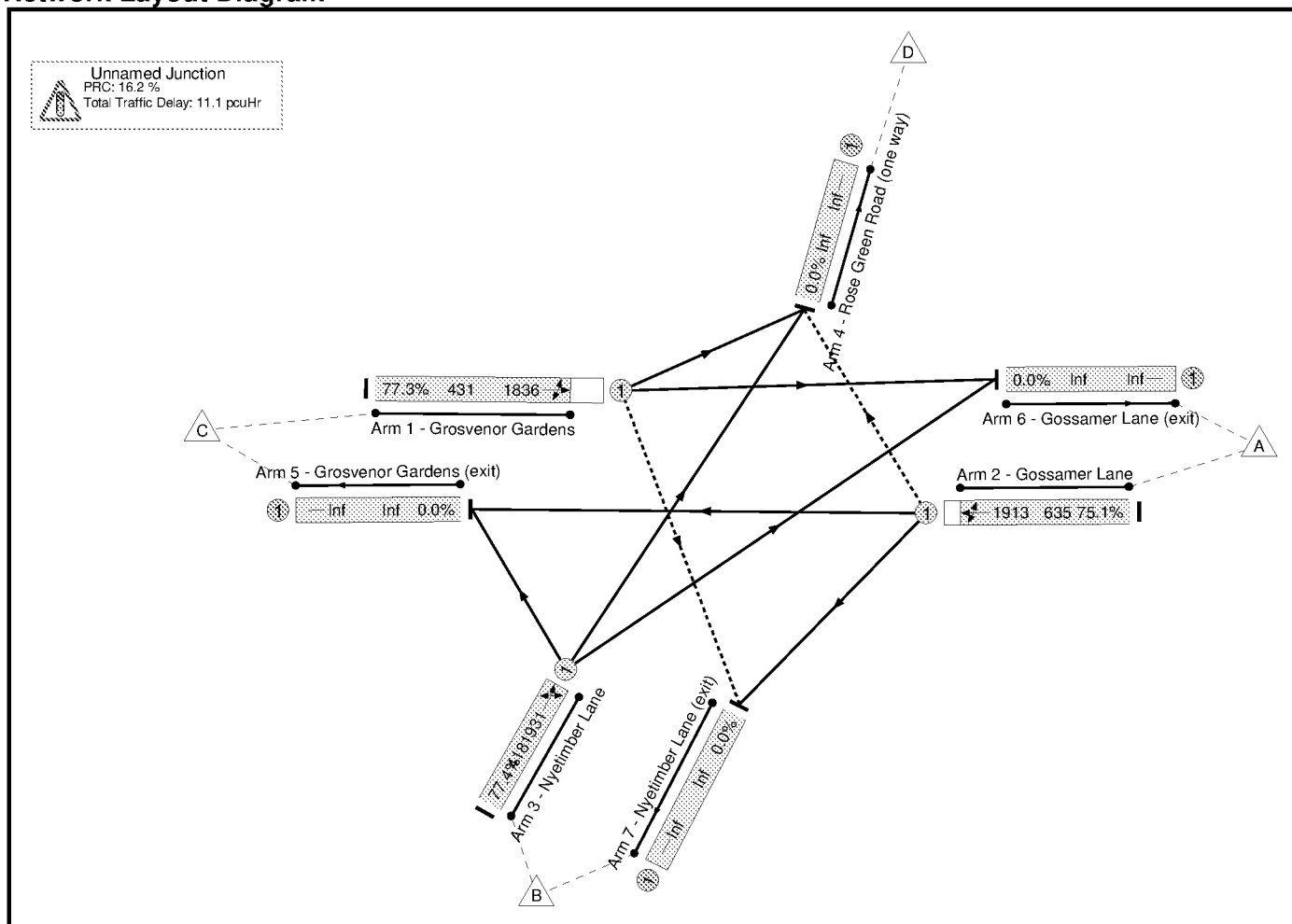


Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network: Grosvenor Gdns-Gossamer La-Nyetimber La-Rose Green Rd	-	-	-		-	-	-	-	-	-	88.8%	64	0	18	15.2	-	-
Unnamed Junction	-	-	-		-	-	-	-	-	-	88.8%	64	0	18	15.2	-	-
1/1	Grosvenor Gardens Left Ahead Right	O	A		2	32	-	238	1835	307	77.6%	31	0	15	2.8	42.7	5.9
2/1	Gossamer Lane Right Ahead Left	O	B		2	32	-	406	1917	457	88.8%	33	0	3	6.8	59.9	10.8
3/1	Nyetimber Lane Ahead Left Right	U	C		2	25	-	438	1944	505	86.8%	-	-	-	5.6	46.1	11.4
C1		PRC for Signalled Lanes (%):					1.4	Total Delay for Signalled Lanes (pcuHr):				15.19	Cycle Time (s): 104				
		PRC Over All Lanes (%):					1.4	Total Delay Over All Lanes(pcuHr):				15.19					

Basic Results Summary

Scenario 2: '2022 PM ' (FG2: '2022 PM', Plan 2: 'Double Cycle')

Network Layout Diagram

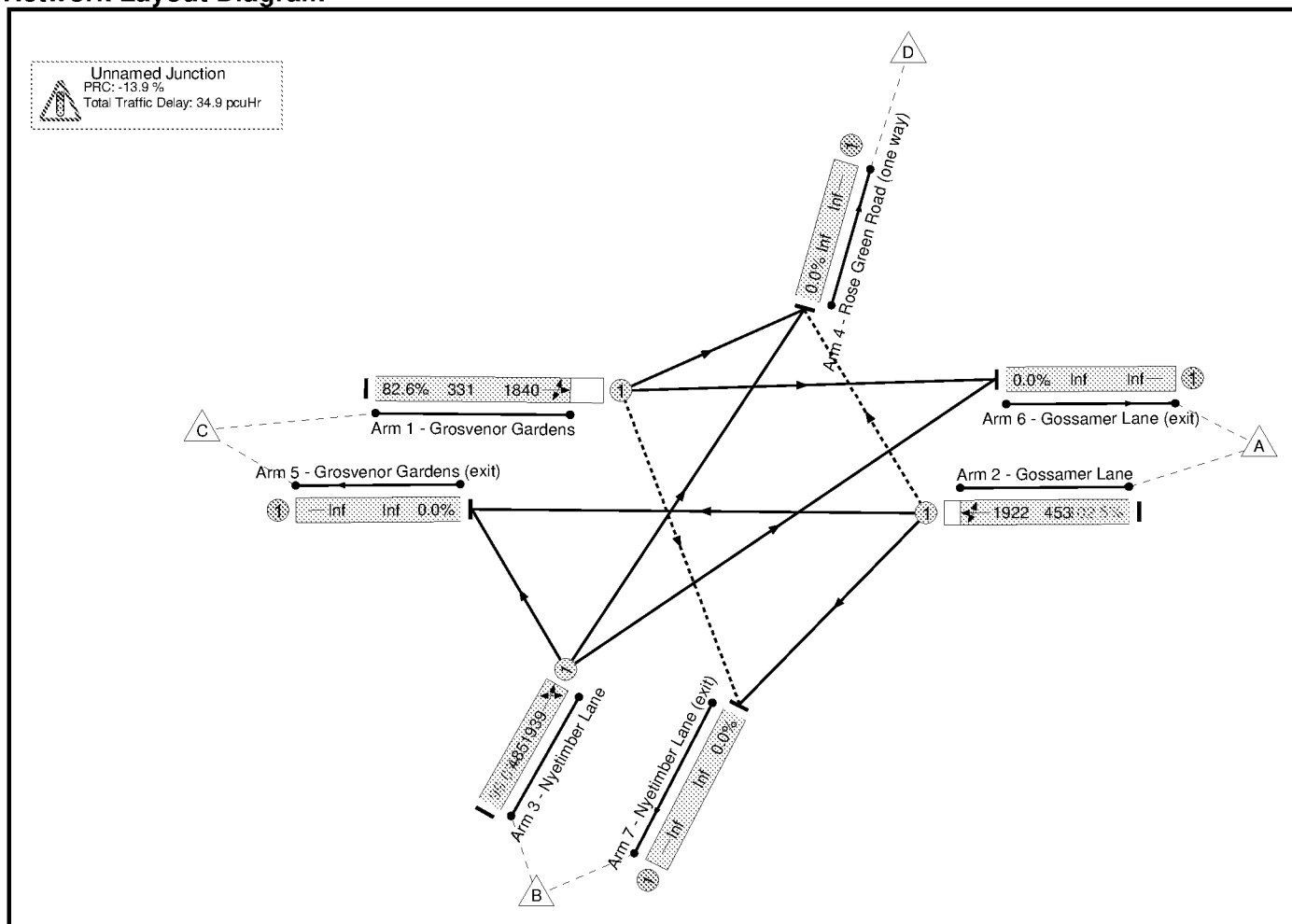


C1	PRC for Signalled Lanes (%):	16.2	Total Delay for Signalled Lanes (pcuHr):	11.08	Cycle Time (s): 120
	PRC Over All Lanes (%):	16.2	Total Delay Over All Lanes(pcuHr):	11.08	

Basic Results Summary

Scenario 3: '2022 + Cumulative AM ' (FG3: '2022 + Cumulative AM', Plan 2: 'Double Cycle')

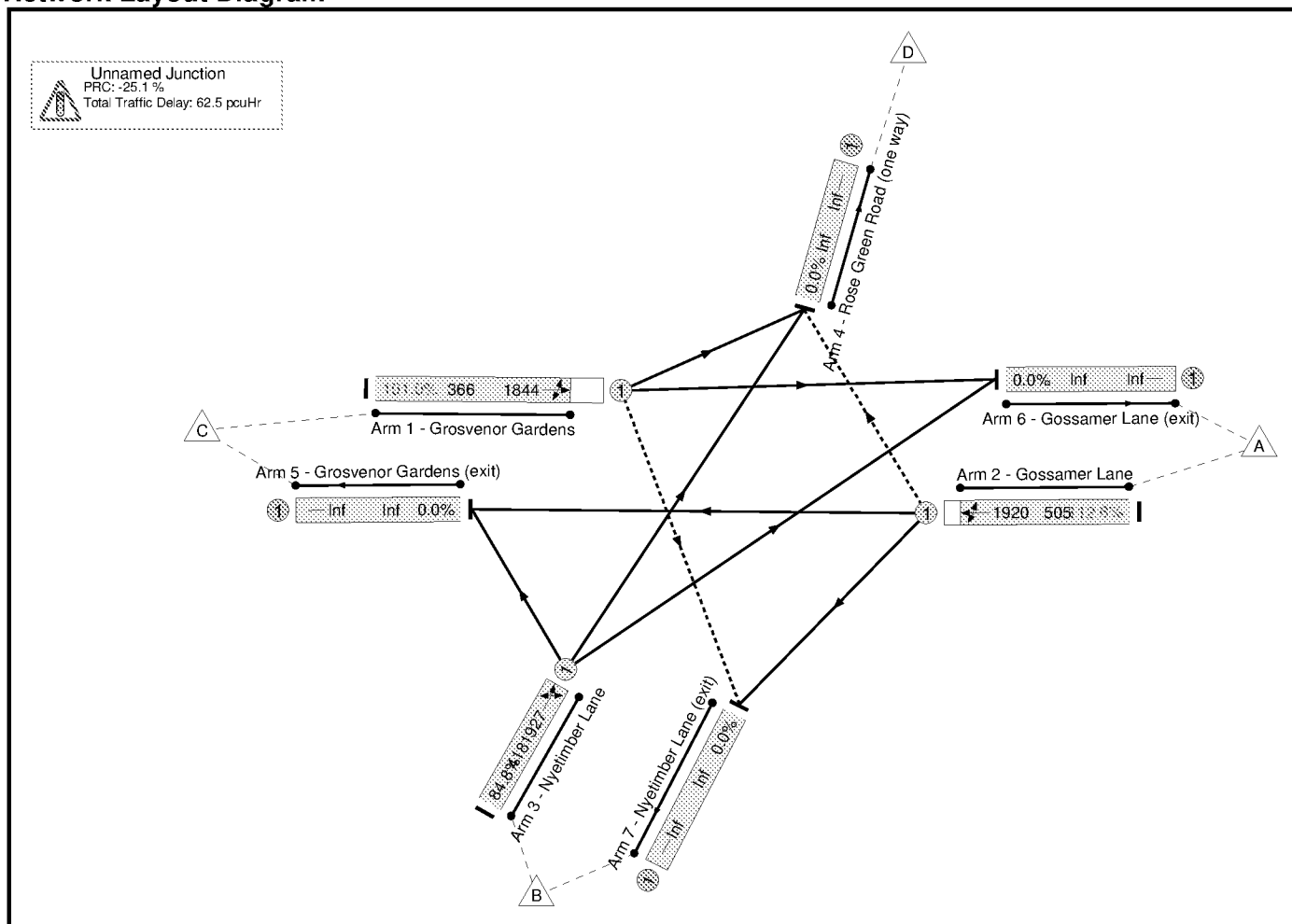
Network Layout Diagram



Basic Results Summary

Scenario 4: '2022 + Cumulative PM ' (FG4: '2022 + Cumulative PM', Plan 2: 'Double Cycle')

Network Layout Diagram

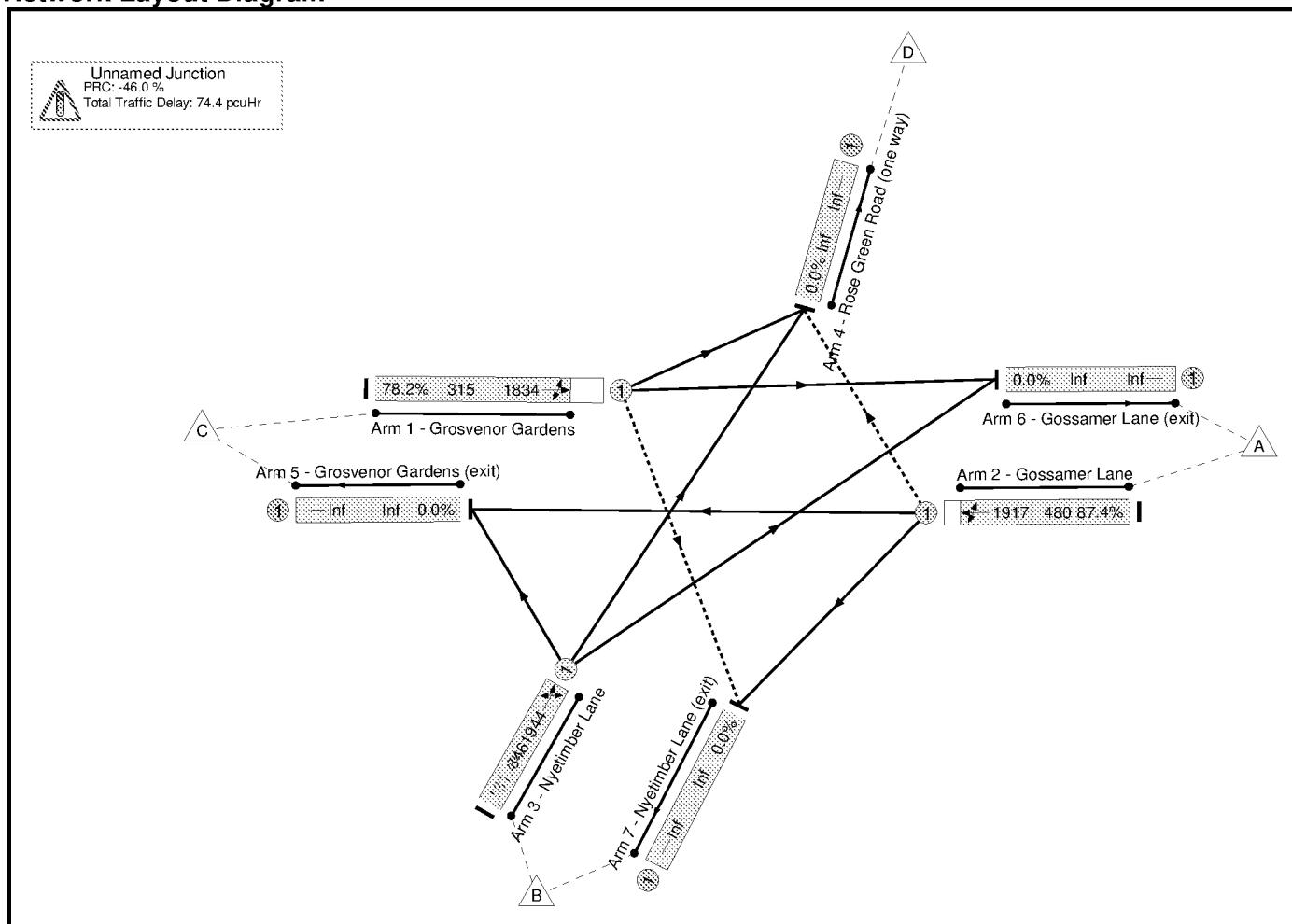


C1	PRC for Signalled Lanes (%):	-25.1	Total Delay for Signalled Lanes (pcuHr):	62.48	Cycle Time (s): 120
	PRC Over All Lanes (%):	-25.1	Total Delay Over All Lanes (pcuHr):	62.48	

Basic Results Summary

Scenario 5: '2027 AM' (FG5: '2027 AM', Plan 2: 'Double Cycle')

Network Layout Diagram

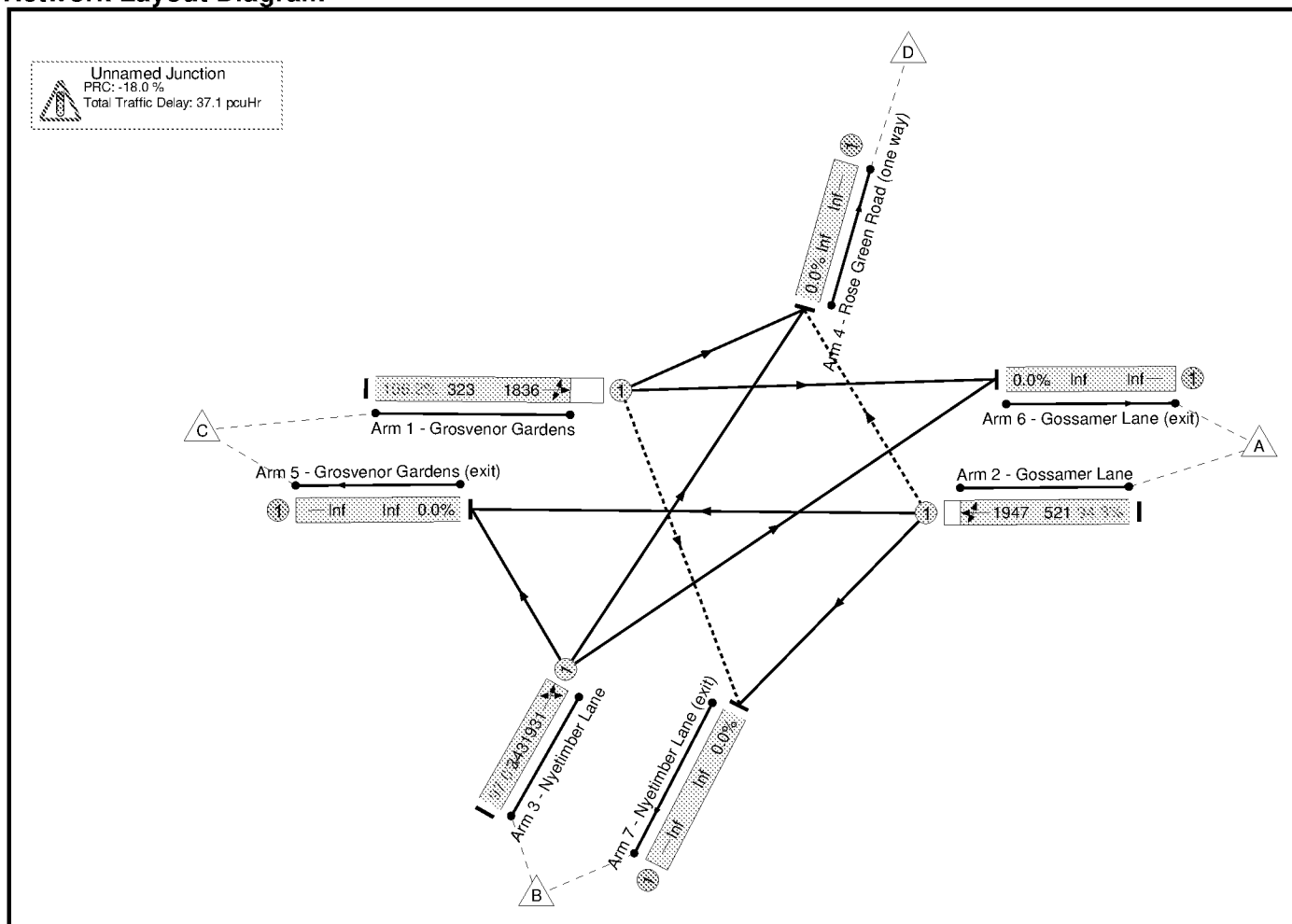


Item	Lane Description	Lane Type	Full Phase	Arrow Phase	Num Greens	Total Green (s)	Arrow Green (s)	Demand Flow (pcu)	Sat Flow (pcu/Hr)	Capacity (pcu)	Deg Sat (%)	Turners In Gaps (pcu)	Turners When Unopposed (pcu)	Turners In Intergreen (pcu)	Total Delay (pcuHr)	Av. Delay Per PCU (s/pcu)	Mean Max Queue (pcu)
Network: Grosvenor Gdns-Gossamer La-Nyetimber La-Rose Green Rd	-	-	-		-	-	-	-	-	-	131.4%	68	0	17	74.4	-	-
Unnamed Junction	-	-	-		-	-	-	-	-	-	131.4%	68	0	17	74.4	-	-
1/1	Grosvenor Gardens Left Ahead Right	O	A		2	29	-	246	1834	315	78.2%	33	0	15	2.7	39.7	5.1
2/1	Gossamer Lane Right Ahead Left	O	B		2	29	-	419	1917	480	87.4%	35	0	2	6.0	51.9	10.6
3/1	Nyetimber Lane Ahead Left Right	U	C		2	14	-	454	1944	346	131.4%	-	-	-	65.6	520.2	69.7
C1						PRC for Signalled Lanes (%):		-46.0	Total Delay for Signalled Lanes (pcuHr):			74.36	Cycle Time (s): 90				
						PRC Over All Lanes (%):		-46.0	Total Delay Over All Lanes(pcuHr):			74.36					

Basic Results Summary

Scenario 6: '2027 PM' (FG6: '2027 PM', Plan 2: 'Double Cycle')

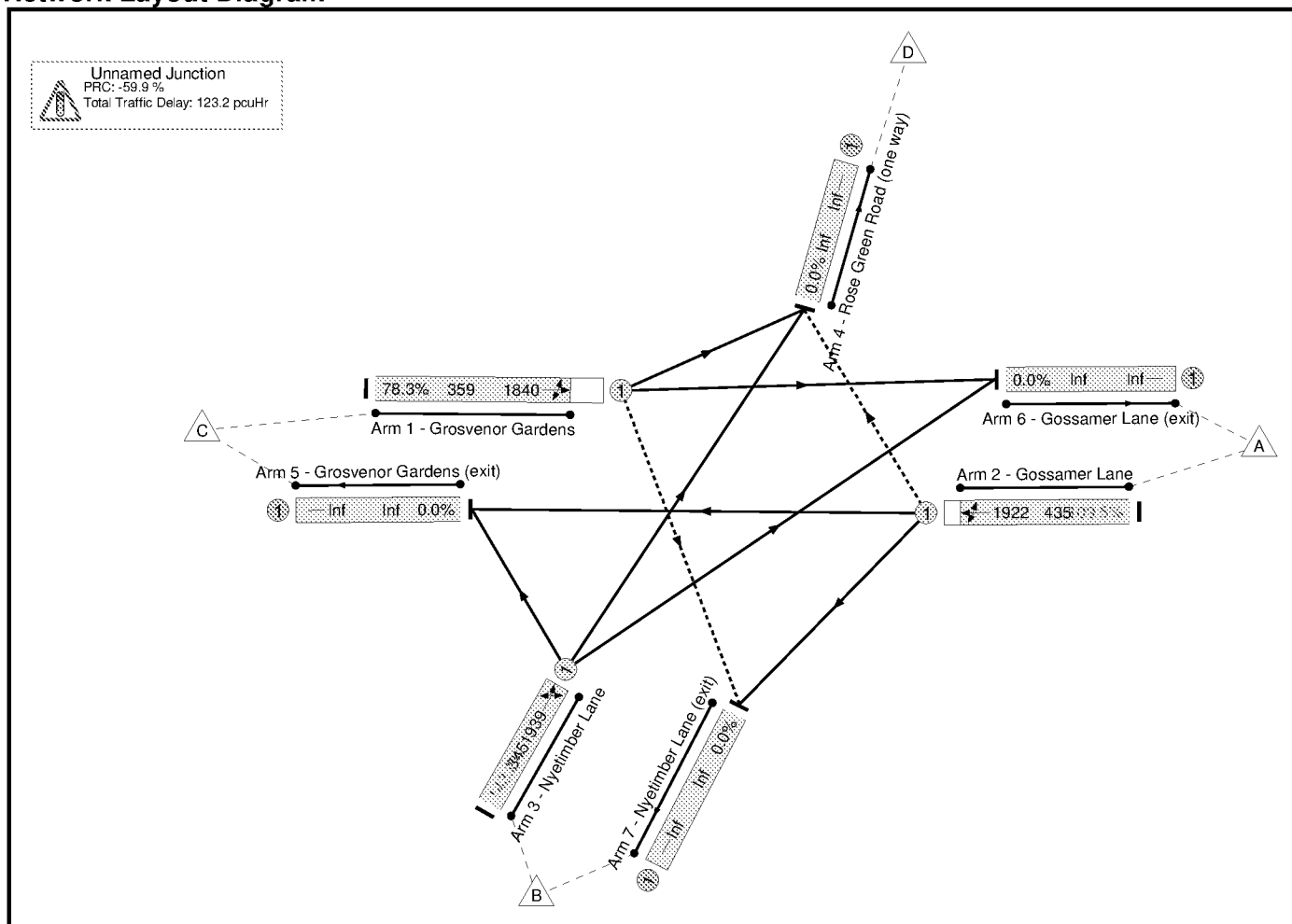
Network Layout Diagram



Basic Results Summary

Scenario 7: '2027 + Cumulative AM' (FG7: '2027 + Cumulative AM', Plan 2: 'Double Cycle')

Network Layout Diagram



C1	PRC for Signalled Lanes (%):	-59.9	Total Delay for Signalled Lanes (pcuHr):	123.20	Cycle Time (s):	90
	PRC Over All Lanes (%):	-59.9	Total Delay Over All Lanes(pcuHr):	123.20		

Basic Results Summary

Scenario 8: '2027 + Cumulative PM' (FG8: '2027 + Cumulative PM', Plan 2: 'Double Cycle')

Network Layout Diagram

