

Appendix M – Junction 5b: Leeds Road / High Street

Junctions 9	
PICADY 9 - Priority Intersection Module	
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Report generation date: 16/12/2019 12:44:25

»2019 Base, AM
 »2019 Base , PM
 »2024 DN , AM
 »2024 DN , PM
 »2030 DN , AM
 »2030 DN , PM
 »2024 DS(A) , AM
 »2024 DS(A) , PM
 »2024 DS(A+B) , AM
 »2024 DS(A+B) , PM
 »2030 DS(A) , AM
 »2030 DS(A) , PM
 »2030 DS(A+B) , AM
 »2030 DS(A+B) , PM

Summary of junction performance

	AM								PM							
	Queue (PCU)	95% Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity	Queue (PCU)	95% Queue (PCU)	Delay (s)	RFC	LOS	Junction Delay (s)	Junction LOS	Network Residual Capacity
	2019 Base															
Stream B-C	0.8	3.1	10.49	0.43	B	2.89	A	33 % [Stream B-A]	0.5	2.1	8.61	0.33	A	3.33	A	25 % [Stream B-A]
Stream B-A	0.0	0.5	17.76	0.02	C				0.1	0.5	20.17	0.07	C			
Stream C-AB	0.7	3.0	11.23	0.40	B				1.3	4.4	13.85	0.56	B			
	2024 DN															
Stream B-C	1.1	3.4	12.81	0.54	B	4.19	A	16 % [Stream B-A]	0.7	2.9	9.57	0.40	A	3.78	A	20 % [Stream B-A]
Stream B-A	0.0	0.5	22.61	0.02	C				0.1	0.5	21.41	0.11	C			
Stream C-AB	1.3	4.5	14.46	0.56	B				1.4	4.6	13.92	0.58	B			
	2030 DN															
Stream B-C	2.0	8.2	17.78	0.67	C	6.61	A	2 % [Stream B-A]	1.0	3.1	11.45	0.51	B	4.40	A	16 % [Stream B-A]
Stream B-A	0.0	0.5	32.66	0.03	D				0.2	0.5	22.55	0.16	C			
Stream C-AB	2.7	13.7	18.77	0.70	C				1.3	4.1	13.06	0.56	B			
	2024 DS(A)															
Stream B-C	1.1	3.4	12.84	0.54	B	4.17	A	16 % [Stream B-A]	0.7	2.9	9.64	0.40	A	3.78	A	19 % [Stream B-A]
Stream B-A	0.0	0.5	22.87	0.02	C				0.1	0.5	21.72	0.11	C			
Stream C-AB	1.3	4.5	14.49	0.56	B				1.5	4.7	14.01	0.58	B			
	2024 DS(A+B)															
Stream B-C	1.2	3.5	13.21	0.54	B	4.21	A	14 % [Stream B-A]	0.7	2.9	9.67	0.40	A	3.74	A	18 % [Stream B-A]
Stream B-A	0.0	0.5	23.82	0.02	C				0.1	0.5	22.17	0.11	C			
Stream C-AB	1.3	4.7	14.85	0.56	B				1.5	4.8	14.01	0.58	B			
	2030 DS(A)															
Stream B-C	2.0	8.4	17.93	0.67	C	6.57	A	1 % [Stream B-A]	1.0	3.2	11.63	0.51	B	4.41	A	15 % [Stream B-A]
Stream B-A	0.0	0.5	33.56	0.03	D				0.2	0.5	23.18	0.16	C			
Stream C-AB	2.8	13.9	18.79	0.71	C				1.4	4.2	13.21	0.57	B			
	2030 DS(A+B)															
Stream B-C	2.4	11.5	21.56	0.71	C	6.33	A	-11 % [Stream B-A]	1.8	7.3	20.43	0.65	C	5.45	A	-11 % [Stream B-A]
Stream B-A	0.1	0.5	62.43	0.05	F				0.5	1.8	68.20	0.36	F			
Stream C-AB	3.8	20.2	19.36	0.75	C				2.3	11.0	16.96	0.66	C			

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	
Location	
Site number	
Date	26/11/2019
Version	
Status	(new file)
Identifier	
Client	
Jobnumber	
Enumerator	PFGROUP\PAhrens
Description	

Units

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

Analysis Options

Vehicle length (m)	Calculate Queue Percentiles	Calculate detailed queueing delay	Calculate residual capacity	Residual capacity criteria type	RFC Threshold	Average Delay threshold (s)	Queue threshold (PCU)
5.75	✓		✓	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)	Run automatically
D1	2019 Base	AM	ONE HOUR	07:15	08:45	15	✓
D2	2019 Base	PM	ONE HOUR	16:15	17:45	15	✓
D3	2024 DN	AM	ONE HOUR	07:15	08:45	15	✓
D4	2024 DN	PM	ONE HOUR	16:15	17:45	15	✓
D5	2030 DN	AM	ONE HOUR	07:15	08:45	15	✓
D6	2030 DN	PM	ONE HOUR	16:15	17:45	15	✓
D7	2024 DS(A)	AM	ONE HOUR	07:15	08:45	15	✓
D8	2024 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓
D9	2024 DS(A+B)	AM	ONE HOUR	07:15	08:45	15	✓
D10	2024 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓
D11	2030 DS(A)	AM	ONE HOUR	07:15	08:45	15	✓
D12	2030 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓
D13	2030 DS(A+B)	AM	ONE HOUR	07:15	08:45	15	✓
D14	2030 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓

Analysis Set Details

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

2019 Base, AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		2.89	A

Junction Network Options

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

Arms

Arms

Arm	Name	Description	Arm type
A	Leeds Road (S)		Major
B	High Street		Minor
C	Leeds Road (N)		Major

Major Arm Geometry

Arm	Width of carriageway (m)	Has kerbed central reserve	Has right turn bay	Width at right turn (m)	Visibility for right turn (m)	Blocks?	Blocking queue (PCU)
C - Leeds Road (N)	10.42		✓	2.75	119.9	✓	5.50

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

Minor Arm Geometry

Arm	Minor arm type	Width at give-way (m)	Width at 5m (m)	Width at 10m (m)	Width at 15m (m)	Width at 20m (m)	Estimate flare length	Flare length (PCU)	Visibility to left (m)	Visibility to right (m)
B - High Street	One lane plus flare	10.00	8.70	6.22	5.11	4.47		1.00	52	49

Slope / Intercept / Capacity

Priority Intersection Slopes and Intercepts

Junction	Stream	Intercept (PCU/hr)	Slope for A-B	Slope for A-C	Slope for C-A	Slope for C-B
1	B-A	468	0.069	0.174	0.109	0.249
1	B-C	778	0.096	0.244	-	-
1	C-B	682	0.213	0.213	-	-

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

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

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D1	2019 Base	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	640	100.000
B - High Street		ONE HOUR	✓	242	100.000
C - Leeds Road (N)		ONE HOUR	✓	761	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	11	629
	B - High Street	3	0	239
	C - Leeds Road (N)	567	194	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.43	10.49	0.8	3.1	B	219	329
B-A	0.02	17.76	0.0	0.5	C	3	4
C-AB	0.40	11.23	0.7	3.0	B	179	268
C-A						520	779
A-B						10	15
A-C						577	866

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	180	45	661	0.272	178	0.0	0.4	7.439	A
B-A	2	0.56	296	0.008	2	0.0	0.0	12.256	B
C-AB	146	37	580	0.252	145	0.0	0.3	8.257	A
C-A	427	107			427				
A-B	8	2			8				
A-C	474	118			474				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	215	54	638	0.337	214	0.4	0.5	8.487	A
B-A	3	0.67	259	0.010	3	0.0	0.0	14.039	B
C-AB	175	44	560	0.312	174	0.3	0.4	9.316	A
C-A	509	127			509				
A-B	10	2			10				
A-C	565	141			565				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	263	66	606	0.434	262	0.5	0.8	10.433	B
B-A	3	0.83	206	0.016	3	0.0	0.0	17.718	C
C-AB	215	54	536	0.402	214	0.4	0.7	11.169	B
C-A	623	156			623				
A-B	12	3			12				
A-C	693	173			693				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	263	66	606	0.434	263	0.8	0.8	10.493	B
B-A	3	0.83	206	0.016	3	0.0	0.0	17.757	C
C-AB	215	54	536	0.402	215	0.7	0.7	11.226	B
C-A	623	156			623				
A-B	12	3			12				
A-C	693	173			693				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	215	54	638	0.337	216	0.8	0.5	8.547	A
B-A	3	0.67	259	0.010	3	0.0	0.0	14.071	B
C-AB	175	44	560	0.312	175	0.7	0.5	9.378	A
C-A	509	127			509				
A-B	10	2			10				
A-C	565	141			565				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	180	45	661	0.272	180	0.5	0.4	7.504	A
B-A	2	0.56	295	0.008	2	0.0	0.0	12.286	B
C-AB	146	37	580	0.252	147	0.5	0.3	8.324	A
C-A	427	107			427				
A-B	8	2			8				
A-C	474	118			474				

Queue Variation Results for each time segment

07:15 - 07:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.37	0.00	0.00	0.37	0.37			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.33	0.00	0.00	0.33	0.33			N/A	N/A

07:30 - 07:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.50	0.50	1.00	1.40	1.45			N/A	N/A
B-A	0.01	0.01	0.25	0.45	0.48			N/A	N/A
C-AB	0.45	0.00	0.00	0.45	0.45			N/A	N/A

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.75	0.03	0.26	0.75	0.75			N/A	N/A
B-A	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-AB	0.66	0.03	0.26	0.66	0.66			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.76	0.03	0.28	1.00	3.05			N/A	N/A
B-A	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-AB	0.67	0.03	0.29	1.22	2.97			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.51	0.05	0.54	1.31	1.40			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.46	0.04	0.36	1.18	1.34			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.38	0.03	0.29	0.72	1.11			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.34	0.03	0.26	0.47	0.49			N/A	N/A

2019 Base , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		3.33	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	25	Stream B-A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D2	2019 Base	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	530	100.000
B - High Street		ONE HOUR	✓	197	100.000
C - Leeds Road (N)		ONE HOUR	✓	1046	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	13	517
	B - High Street	13	0	184
	C - Leeds Road (N)	762	284	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.33	8.61	0.5	2.1	A	169	253
B-A	0.07	20.17	0.1	0.5	C	12	18
C-AB	0.56	13.85	1.3	4.4	B	268	403
C-A						691	1037
A-B						12	18
A-C						474	712

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	139	35	671	0.206	137	0.0	0.3	6.733	A
B-A	10	2	284	0.034	10	0.0	0.0	13.105	B
C-AB	215	54	599	0.358	212	0.0	0.6	9.260	A
C-A	573	143			573				
A-B	10	2			10				
A-C	389	97			389				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	165	41	651	0.254	165	0.3	0.3	7.410	A
B-A	12	3	246	0.048	12	0.0	0.0	15.354	C
C-AB	259	65	588	0.440	258	0.6	0.8	10.873	B
C-A	682	170			682				
A-B	12	3			12				
A-C	465	116			465				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	203	51	621	0.326	202	0.3	0.5	8.588	A
B-A	14	4	193	0.074	14	0.0	0.1	20.082	C
C-AB	332	83	592	0.561	330	0.8	1.3	13.641	B
C-A	819	205			819				
A-B	14	4			14				
A-C	569	142			569				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	203	51	621	0.326	203	0.5	0.5	8.612	A
B-A	14	4	193	0.074	14	0.1	0.1	20.165	C
C-AB	332	83	592	0.561	332	1.3	1.3	13.846	B
C-A	819	205			819				
A-B	14	4			14				
A-C	569	142			569				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	165	41	650	0.254	166	0.5	0.3	7.442	A
B-A	12	3	245	0.048	12	0.1	0.1	15.424	C
C-AB	259	65	588	0.440	261	1.3	0.8	11.070	B
C-A	682	170			682				
A-B	12	3			12				
A-C	465	116			465				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	139	35	671	0.206	139	0.3	0.3	6.770	A
B-A	10	2	283	0.035	10	0.1	0.0	13.166	B
C-AB	215	54	599	0.358	216	0.8	0.6	9.413	A
C-A	573	143			573				
A-B	10	2			10				
A-C	389	97			389				

Queue Variation Results for each time segment
16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.26	0.00	0.00	0.26	0.26			N/A	N/A
B-A	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-AB	0.55	0.55	1.00	1.40	1.45			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.34	0.00	0.00	0.34	0.34			N/A	N/A
B-A	0.05	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	0.78	0.19	0.93	1.40	1.45			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.48	0.03	0.26	0.48	0.48			N/A	N/A
B-A	0.08	0.03	0.26	0.47	0.50			N/A	N/A
C-AB	1.30	0.03	0.27	1.30	2.84			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.48	0.03	0.30	1.35	2.14			N/A	N/A
B-A	0.08	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	1.33	0.03	0.28	1.33	4.37			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.34	0.00	0.00	0.34	0.34			N/A	N/A
B-A	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.81	0.07	0.80	1.11	1.62			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.26	0.00	0.00	0.26	0.26			N/A	N/A
B-A	0.04	0.00	0.00	0.04	0.04			N/A	N/A
C-AB	0.57	0.05	0.45	1.37	1.50			N/A	N/A

2024 DN , AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		4.19	A

Junction Network Options

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D3	2024 DN	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	641	100.000
B - High Street		ONE HOUR	✓	298	100.000
C - Leeds Road (N)		ONE HOUR	✓	926	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
	A - Leeds Road (S)	0	12	629
	B - High Street	3	0	295
	C - Leeds Road (N)	658	268	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
From		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.54	12.81	1.1	3.4	B	271	406
B-A	0.02	22.61	0.0	0.5	C	3	4
C-AB	0.56	14.46	1.3	4.5	B	252	378
C-A						598	896
A-B						11	17
A-C						577	866

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	222	56	661	0.336	220	0.0	0.5	8.132	A
B-A	2	0.56	270	0.008	2	0.0	0.0	13.443	B
C-AB	202	51	581	0.348	200	0.0	0.5	9.412	A
C-A	495	124			495				
A-B	9	2			9				
A-C	474	118			474				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	265	66	638	0.416	264	0.5	0.7	9.619	A
B-A	3	0.67	226	0.012	3	0.0	0.0	16.115	C
C-AB	243	61	565	0.431	243	0.5	0.7	11.138	B
C-A	589	147			589				
A-B	11	3			11				
A-C	565	141			565				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	325	81	606	0.536	323	0.7	1.1	12.657	B
B-A	3	0.83	163	0.020	3	0.0	0.0	22.477	C
C-AB	311	78	560	0.555	309	0.7	1.3	14.242	B
C-A	709	177			709				
A-B	13	3			13				
A-C	693	173			693				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	325	81	606	0.536	325	1.1	1.1	12.805	B
B-A	3	0.83	163	0.020	3	0.0	0.0	22.608	C
C-AB	311	78	560	0.555	311	1.3	1.3	14.462	B
C-A	709	177			709				
A-B	13	3			13				
A-C	693	173			693				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	265	66	638	0.416	267	1.1	0.7	9.747	A
B-A	3	0.67	225	0.012	3	0.0	0.0	16.207	C
C-AB	243	61	565	0.431	245	1.3	0.8	11.340	B
C-A	589	147			589				
A-B	11	3			11				
A-C	565	141			565				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	222	56	661	0.336	223	0.7	0.5	8.236	A
B-A	2	0.56	269	0.008	2	0.0	0.0	13.505	B
C-AB	202	51	581	0.348	203	0.8	0.5	9.563	A
C-A	495	124			495				
A-B	9	2			9				
A-C	474	118			474				

Queue Variation Results for each time segment

07:15 - 07:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.50	0.00	0.00	0.50	0.50			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.53	0.53	1.00	1.40	1.45			N/A	N/A

07:30 - 07:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.70	0.17	0.91	1.38	1.44			N/A	N/A
B-A	0.01	0.01	0.25	0.45	0.48			N/A	N/A
C-AB	0.75	0.19	0.93	1.39	1.45			N/A	N/A

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.12	0.03	0.27	1.12	1.49			N/A	N/A
B-A	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-AB	1.26	0.03	0.27	1.26	2.73			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.14	0.03	0.28	1.14	3.42			N/A	N/A
B-A	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-AB	1.29	0.03	0.28	1.29	4.45			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.72	0.08	0.78	1.41	1.49			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.78	0.07	0.77	1.49	1.53			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.51	0.04	0.44	1.30	1.42			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.54	0.04	0.44	1.35	1.48			N/A	N/A

2024 DN , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		3.78	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	20	Stream B-A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D4	2024 DN	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	477	100.000
B - High Street		ONE HOUR	✓	246	100.000
C - Leeds Road (N)		ONE HOUR	✓	1100	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	10	467
	B - High Street	19	0	227
	C - Leeds Road (N)	801	299	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.40	9.57	0.7	2.9	A	208	312
B-A	0.11	21.41	0.1	0.5	C	17	26
C-AB	0.58	13.92	1.4	4.6	B	284	427
C-A						725	1087
A-B						9	14
A-C						429	643

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	43	676	0.253	170	0.0	0.3	7.085	A
B-A	14	4	284	0.050	14	0.0	0.1	13.343	B
C-AB	226	57	608	0.372	224	0.0	0.6	9.312	A
C-A	602	151			602				
A-B	8	2			8				
A-C	352	88			352				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	204	51	656	0.311	204	0.3	0.4	7.946	A
B-A	17	4	244	0.070	17	0.1	0.1	15.832	C
C-AB	273	68	600	0.455	272	0.6	0.8	10.947	B
C-A	716	179			716				
A-B	9	2			9				
A-C	420	105			420				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	250	62	626	0.399	249	0.4	0.7	9.528	A
B-A	21	5	190	0.110	21	0.1	0.1	21.287	C
C-AB	354	89	613	0.578	352	0.8	1.4	13.687	B
C-A	857	214			857				
A-B	11	3			11				
A-C	514	129			514				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	250	62	626	0.399	250	0.7	0.7	9.574	A
B-A	21	5	189	0.111	21	0.1	0.1	21.410	C
C-AB	354	89	613	0.578	354	1.4	1.4	13.917	B
C-A	857	214			857				
A-B	11	3			11				
A-C	514	129			514				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	204	51	656	0.311	205	0.7	0.5	7.996	A
B-A	17	4	243	0.070	17	0.1	0.1	15.925	C
C-AB	273	68	600	0.455	275	1.4	0.9	11.168	B
C-A	716	179			716				
A-B	9	2			9				
A-C	420	105			420				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	43	676	0.253	171	0.5	0.3	7.141	A
B-A	14	4	283	0.051	14	0.1	0.1	13.420	B
C-AB	226	57	608	0.372	227	0.9	0.6	9.476	A
C-A	602	151			602				
A-B	8	2			8				
A-C	352	88			352				

Queue Variation Results for each time segment

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.33	0.00	0.00	0.33	0.33			N/A	N/A
B-A	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.58	0.55	1.00	1.40	1.45			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.45	0.00	0.00	0.45	0.45			N/A	N/A
B-A	0.07	0.03	0.25	0.46	0.48			N/A	N/A
C-AB	0.83	0.18	0.94	1.42	1.48			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.65	0.03	0.26	0.65	0.65			N/A	N/A
B-A	0.12	0.03	0.26	0.47	0.50			N/A	N/A
C-AB	1.40	0.03	0.28	1.40	3.71			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.66	0.03	0.29	1.16	2.88			N/A	N/A
B-A	0.12	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	1.44	0.03	0.28	1.44	4.63			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.46	0.00	0.00	0.46	0.46			N/A	N/A
B-A	0.08	0.00	0.00	0.08	0.08			N/A	N/A
C-AB	0.87	0.07	0.82	1.39	1.80			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.34	0.03	0.25	0.46	0.48			N/A	N/A
B-A	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.60	0.05	0.46	1.36	1.36			N/A	N/A

2030 DN , AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		6.61	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	2	Stream B-A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D5	2030 DN	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	627	100.000
B - High Street		ONE HOUR	✓	373	100.000
C - Leeds Road (N)		ONE HOUR	✓	1084	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
	A - Leeds Road (S)	0	13	614
	B - High Street	3	0	370
	C - Leeds Road (N)	742	342	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
From		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.67	17.78	2.0	8.2	C	340	509
B-A	0.03	32.66	0.0	0.5	D	3	4
C-AB	0.70	18.77	2.7	13.7	C	347	520
C-A						648	972
A-B						12	18
A-C						563	845

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	279	70	664	0.420	276	0.0	0.7	9.217	A
B-A	2	0.56	243	0.009	2	0.0	0.0	14.980	B
C-AB	260	65	588	0.443	257	0.0	0.8	10.794	B
C-A	556	139			556				
A-B	10	2			10				
A-C	462	116			462				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	333	83	641	0.519	331	0.7	1.1	11.575	B
B-A	3	0.67	190	0.014	3	0.0	0.0	19.239	C
C-AB	321	80	586	0.547	319	0.8	1.2	13.408	B
C-A	654	163			654				
A-B	12	3			12				
A-C	552	138			552				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	407	102	609	0.669	404	1.1	1.9	17.250	C
B-A	3	0.83	116	0.029	3	0.0	0.0	32.041	D
C-AB	460	115	653	0.704	454	1.2	2.6	17.865	C
C-A	734	183			734				
A-B	14	4			14				
A-C	676	169			676				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	407	102	609	0.669	407	1.9	2.0	17.779	C
B-A	3	0.83	114	0.029	3	0.0	0.0	32.661	D
C-AB	460	115	653	0.704	459	2.6	2.7	18.767	C
C-A	734	183			734				
A-B	14	4			14				
A-C	676	169			676				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	333	83	641	0.519	336	2.0	1.1	11.939	B
B-A	3	0.67	187	0.014	3	0.0	0.0	19.552	C
C-AB	321	80	586	0.547	326	2.7	1.3	14.178	B
C-A	654	163			654				
A-B	12	3			12				
A-C	552	138			552				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	279	70	663	0.420	280	1.1	0.7	9.426	A
B-A	2	0.56	240	0.009	2	0.0	0.0	15.120	C
C-AB	260	65	588	0.443	262	1.3	0.8	11.127	B
C-A	556	139			556				
A-B	10	2			10				
A-C	462	116			462				

Queue Variation Results for each time segment

07:15 - 07:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.71	0.55	1.00	1.40	1.45			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.79	0.55	1.00	1.40	1.45			N/A	N/A

07:30 - 07:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.05	0.11	0.99	1.69	1.97			N/A	N/A
B-A	0.01	0.01	0.25	0.45	0.48			N/A	N/A
C-AB	1.21	0.11	1.07	1.98	2.68			N/A	N/A

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.91	0.03	0.29	1.91	8.23			N/A	N/A
B-A	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-AB	2.59	0.03	0.33	4.91	13.69			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.96	0.03	0.28	1.96	6.14			N/A	N/A
B-A	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-AB	2.73	0.03	0.30	2.73	12.30			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.11	0.06	0.70	2.36	3.36			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	1.31	0.05	0.67	3.00	4.50			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.74	0.04	0.41	1.64	2.54			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.82	0.04	0.39	1.91	3.17			N/A	N/A

2030 DN , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		4.40	A

Junction Network Options

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D6	2030 DN	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	381	100.000
B - High Street		ONE HOUR	✓	323	100.000
C - Leeds Road (N)		ONE HOUR	✓	1132	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	6	375
	B - High Street	27	0	296
	C - Leeds Road (N)	829	303	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.51	11.45	1.0	3.1	B	272	407
B-A	0.16	22.55	0.2	0.5	C	25	37
C-AB	0.56	13.06	1.3	4.1	B	287	430
C-A						752	1128
A-B						6	8
A-C						344	516

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	223	56	689	0.324	221	0.0	0.5	7.668	A
B-A	20	5	289	0.070	20	0.0	0.1	13.387	B
C-AB	229	57	623	0.367	227	0.0	0.6	9.025	A
C-A	623	156			623				
A-B	5	1			5				
A-C	282	71			282				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	266	67	670	0.397	265	0.5	0.6	8.881	A
B-A	24	6	248	0.098	24	0.1	0.1	16.079	C
C-AB	276	69	618	0.447	275	0.6	0.8	10.485	B
C-A	741	185			741				
A-B	5	1			5				
A-C	337	84			337				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	326	81	641	0.509	324	0.6	1.0	11.333	B
B-A	30	7	190	0.156	29	0.1	0.2	22.364	C
C-AB	355	89	631	0.563	353	0.8	1.3	12.880	B
C-A	891	223			891				
A-B	7	2			7				
A-C	413	103			413				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	326	81	640	0.509	326	1.0	1.0	11.449	B
B-A	30	7	189	0.157	30	0.2	0.2	22.548	C
C-AB	355	89	631	0.563	355	1.3	1.3	13.058	B
C-A	891	223			891				
A-B	7	2			7				
A-C	413	103			413				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	266	67	669	0.397	268	1.0	0.7	8.988	A
B-A	24	6	247	0.098	25	0.2	0.1	16.211	C
C-AB	276	69	618	0.447	278	1.3	0.8	10.669	B
C-A	741	185			741				
A-B	5	1			5				
A-C	337	84			337				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	223	56	688	0.324	224	0.7	0.5	7.761	A
B-A	20	5	288	0.071	20	0.1	0.1	13.485	B
C-AB	229	57	623	0.367	230	0.8	0.6	9.175	A
C-A	623	156			623				
A-B	5	1			5				
A-C	282	71			282				

Queue Variation Results for each time segment
16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.47	0.00	0.00	0.47	0.47			N/A	N/A
B-A	0.07	0.00	0.00	0.07	0.07			N/A	N/A
C-AB	0.57	0.55	1.00	1.40	1.45			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.65	0.16	0.91	1.38	1.44			N/A	N/A
B-A	0.11	0.00	0.00	0.11	0.11			N/A	N/A
C-AB	0.80	0.19	0.93	1.40	1.46			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.01	0.03	0.26	1.01	1.01			N/A	N/A
B-A	0.18	0.03	0.26	0.47	0.50			N/A	N/A
C-AB	1.32	0.03	0.27	1.32	2.70			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.02	0.03	0.28	1.02	3.11			N/A	N/A
B-A	0.18	0.03	0.26	0.47	0.49			N/A	N/A
C-AB	1.34	0.03	0.28	1.34	4.09			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.67	0.08	0.78	1.37	1.44			N/A	N/A
B-A	0.11	0.00	0.00	0.11	0.11			N/A	N/A
C-AB	0.84	0.08	0.83	1.20	1.67			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.48	0.04	0.42	1.26	1.38			N/A	N/A
B-A	0.08	0.00	0.00	0.08	0.08			N/A	N/A
C-AB	0.59	0.05	0.47	1.08	1.08			N/A	N/A

2024 DS(A) , AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		4.17	A

Junction Network Options

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D7	2024 DS(A)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	644	100.000
B - High Street		ONE HOUR	✓	298	100.000
C - Leeds Road (N)		ONE HOUR	✓	938	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
	A - Leeds Road (S)	0	12	632
	B - High Street	3	0	295
	C - Leeds Road (N)	670	268	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
From		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.54	12.84	1.1	3.4	B	271	406
B-A	0.02	22.87	0.0	0.5	C	3	4
C-AB	0.56	14.49	1.3	4.5	B	252	379
C-A						608	913
A-B						11	17
A-C						580	870

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	222	56	660	0.336	220	0.0	0.5	8.142	A
B-A	2	0.56	269	0.008	2	0.0	0.0	13.511	B
C-AB	202	51	580	0.349	200	0.0	0.5	9.423	A
C-A	504	126			504				
A-B	9	2			9				
A-C	476	119			476				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	265	66	637	0.416	264	0.5	0.7	9.636	A
B-A	3	0.67	224	0.012	3	0.0	0.0	16.231	C
C-AB	243	61	564	0.431	243	0.5	0.7	11.150	B
C-A	600	150			600				
A-B	11	3			11				
A-C	568	142			568				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	325	81	605	0.537	323	0.7	1.1	12.696	B
B-A	3	0.83	162	0.020	3	0.0	0.0	22.737	C
C-AB	311	78	560	0.556	309	0.7	1.3	14.258	B
C-A	721	180			721				
A-B	13	3			13				
A-C	696	174			696				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	325	81	605	0.537	325	1.1	1.1	12.843	B
B-A	3	0.83	161	0.021	3	0.0	0.0	22.871	C
C-AB	311	78	560	0.556	311	1.3	1.3	14.486	B
C-A	721	180			721				
A-B	13	3			13				
A-C	696	174			696				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	265	66	637	0.416	267	1.1	0.7	9.767	A
B-A	3	0.67	223	0.012	3	0.0	0.0	16.325	C
C-AB	243	61	564	0.431	245	1.3	0.8	11.361	B
C-A	600	150			600				
A-B	11	3			11				
A-C	568	142			568				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	222	56	660	0.336	223	0.7	0.5	8.249	A
B-A	2	0.56	267	0.008	2	0.0	0.0	13.574	B
C-AB	202	51	580	0.349	203	0.8	0.5	9.574	A
C-A	504	126			504				
A-B	9	2			9				
A-C	476	119			476				

Queue Variation Results for each time segment

07:15 - 07:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.50	0.00	0.00	0.50	0.50			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.53	0.53	1.00	1.40	1.45			N/A	N/A

07:30 - 07:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.70	0.17	0.91	1.38	1.44			N/A	N/A
B-A	0.01	0.01	0.25	0.45	0.48			N/A	N/A
C-AB	0.75	0.19	0.93	1.39	1.45			N/A	N/A

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.13	0.03	0.27	1.13	1.13			N/A	N/A
B-A	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-AB	1.27	0.03	0.27	1.27	2.78			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.14	0.03	0.28	1.14	3.43			N/A	N/A
B-A	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-AB	1.29	0.03	0.28	1.29	4.48			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.73	0.08	0.78	1.42	1.50			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.78	0.07	0.77	1.50	1.54			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.51	0.04	0.44	1.30	1.42			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.55	0.04	0.44	1.35	1.48			N/A	N/A

2024 DS(A) , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		3.78	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	19	Stream B-A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D8	2024 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	486	100.000
B - High Street		ONE HOUR	✓	246	100.000
C - Leeds Road (N)		ONE HOUR	✓	1105	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
From		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
	A - Leeds Road (S)	0	10	476
	B - High Street	19	0	227
	C - Leeds Road (N)	806	299	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
From		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.40	9.64	0.7	2.9	A	208	312
B-A	0.11	21.72	0.1	0.5	C	17	26
C-AB	0.58	14.01	1.5	4.7	B	285	427
C-A						729	1094
A-B						9	14
A-C						437	655

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	43	675	0.253	170	0.0	0.3	7.108	A
B-A	14	4	282	0.051	14	0.0	0.1	13.433	B
C-AB	226	57	607	0.373	224	0.0	0.6	9.345	A
C-A	606	151			606				
A-B	8	2			8				
A-C	358	90			358				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	204	51	654	0.312	204	0.3	0.4	7.981	A
B-A	17	4	242	0.070	17	0.1	0.1	15.956	C
C-AB	273	68	599	0.456	272	0.6	0.8	10.999	B
C-A	720	180			720				
A-B	9	2			9				
A-C	428	107			428				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	250	62	624	0.401	249	0.4	0.7	9.592	A
B-A	21	5	187	0.112	21	0.1	0.1	21.596	C
C-AB	355	89	612	0.580	352	0.8	1.4	13.776	B
C-A	862	215			862				
A-B	11	3			11				
A-C	524	131			524				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	250	62	623	0.401	250	0.7	0.7	9.641	A
B-A	21	5	187	0.112	21	0.1	0.1	21.716	C
C-AB	355	89	612	0.580	355	1.4	1.5	14.008	B
C-A	862	215			862				
A-B	11	3			11				
A-C	524	131			524				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	204	51	654	0.312	205	0.7	0.5	8.032	A
B-A	17	4	242	0.071	17	0.1	0.1	16.064	C
C-AB	273	68	599	0.456	276	1.5	0.9	11.227	B
C-A	720	180			720				
A-B	9	2			9				
A-C	428	107			428				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	43	674	0.253	171	0.5	0.3	7.163	A
B-A	14	4	281	0.051	14	0.1	0.1	13.500	B
C-AB	226	57	607	0.373	227	0.9	0.6	9.514	A
C-A	606	151			606				
A-B	8	2			8				
A-C	358	90			358				

Queue Variation Results for each time segment
16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.34	0.00	0.00	0.34	0.34			N/A	N/A
B-A	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.59	0.55	1.00	1.40	1.45			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.45	0.00	0.00	0.45	0.45			N/A	N/A
B-A	0.07	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	0.83	0.18	0.94	1.42	1.48			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.66	0.03	0.26	0.66	0.66			N/A	N/A
B-A	0.12	0.03	0.26	0.47	0.50			N/A	N/A
C-AB	1.42	0.03	0.28	1.42	3.86			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.66	0.03	0.29	1.16	2.89			N/A	N/A
B-A	0.12	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	1.45	0.03	0.28	1.45	4.71			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.46	0.00	0.00	0.46	0.46			N/A	N/A
B-A	0.08	0.00	0.00	0.08	0.08			N/A	N/A
C-AB	0.87	0.07	0.82	1.42	1.82			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.34	0.03	0.25	0.46	0.48			N/A	N/A
B-A	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.61	0.05	0.46	1.39	1.39			N/A	N/A

2024 DS(A+B) , AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		4.21	A

Junction Network Options

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D9	2024 DS(A+B)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	673	100.000
B - High Street		ONE HOUR	✓	298	100.000
C - Leeds Road (N)		ONE HOUR	✓	942	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	12	661
	B - High Street	3	0	295
	C - Leeds Road (N)	674	268	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.54	13.21	1.2	3.5	B	271	406
B-A	0.02	23.82	0.0	0.5	C	3	4
C-AB	0.56	14.85	1.3	4.7	B	253	379
C-A						611	917
A-B						11	17
A-C						607	910

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	222	56	655	0.339	220	0.0	0.5	8.241	A
B-A	2	0.56	264	0.009	2	0.0	0.0	13.729	B
C-AB	202	51	576	0.352	200	0.0	0.5	9.538	A
C-A	507	127			507				
A-B	9	2			9				
A-C	498	124			498				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	265	66	631	0.420	264	0.5	0.7	9.802	A
B-A	3	0.67	219	0.012	3	0.0	0.0	16.613	C
C-AB	244	61	559	0.436	243	0.5	0.8	11.341	B
C-A	603	151			603				
A-B	11	3			11				
A-C	594	149			594				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	325	81	597	0.544	323	0.7	1.2	13.049	B
B-A	3	0.83	155	0.021	3	0.0	0.0	23.671	C
C-AB	313	78	555	0.563	311	0.8	1.3	14.600	B
C-A	724	181			724				
A-B	13	3			13				
A-C	728	182			728				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	325	81	597	0.544	325	1.2	1.2	13.211	B
B-A	3	0.83	154	0.021	3	0.0	0.0	23.823	C
C-AB	313	78	555	0.563	313	1.3	1.3	14.846	B
C-A	724	181			724				
A-B	13	3			13				
A-C	728	182			728				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	265	66	631	0.420	267	1.2	0.7	9.943	A
B-A	3	0.67	218	0.012	3	0.0	0.0	16.716	C
C-AB	244	61	559	0.436	246	1.3	0.8	11.563	B
C-A	603	151			603				
A-B	11	3			11				
A-C	594	149			594				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	222	56	655	0.339	223	0.7	0.5	8.351	A
B-A	2	0.56	263	0.009	2	0.0	0.0	13.795	B
C-AB	202	51	576	0.352	203	0.8	0.6	9.695	A
C-A	507	127			507				
A-B	9	2			9				
A-C	498	124			498				

Queue Variation Results for each time segment

07:15 - 07:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.51	0.51	1.00	1.40	1.45			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.53	0.53	1.00	1.40	1.45			N/A	N/A

07:30 - 07:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.71	0.16	0.91	1.38	1.44			N/A	N/A
B-A	0.01	0.01	0.25	0.45	0.48			N/A	N/A
C-AB	0.76	0.18	0.92	1.39	1.45			N/A	N/A

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.16	0.03	0.27	1.16	1.36			N/A	N/A
B-A	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-AB	1.31	0.03	0.28	1.31	3.22			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.17	0.03	0.28	1.17	3.54			N/A	N/A
B-A	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-AB	1.33	0.03	0.28	1.33	4.70			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.74	0.07	0.77	1.16	1.16			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.80	0.07	0.77	1.11	1.63			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.52	0.04	0.44	1.31	1.43			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.55	0.04	0.44	1.00	1.00			N/A	N/A

2024 DS(A+B) , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		3.74	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	18	Stream B-A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D10	2024 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	489	100.000
B - High Street		ONE HOUR	✓	246	100.000
C - Leeds Road (N)		ONE HOUR	✓	1129	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	10	479
	B - High Street	19	0	227
	C - Leeds Road (N)	830	299	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.40	9.67	0.7	2.9	A	208	312
B-A	0.11	22.17	0.1	0.5	C	17	26
C-AB	0.58	14.01	1.5	4.8	B	285	428
C-A						751	1126
A-B						9	14
A-C						440	659

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	43	674	0.254	170	0.0	0.3	7.117	A
B-A	14	4	280	0.051	14	0.0	0.1	13.532	B
C-AB	226	57	606	0.373	224	0.0	0.6	9.355	A
C-A	624	156			624				
A-B	8	2			8				
A-C	361	90			361				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	204	51	653	0.312	204	0.3	0.4	7.995	A
B-A	17	4	240	0.071	17	0.1	0.1	16.163	C
C-AB	273	68	598	0.457	272	0.6	0.8	11.012	B
C-A	742	185			742				
A-B	9	2			9				
A-C	431	108			431				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	250	62	622	0.402	249	0.4	0.7	9.622	A
B-A	21	5	184	0.114	21	0.1	0.1	22.030	C
C-AB	356	89	613	0.580	353	0.8	1.4	13.779	B
C-A	887	222			887				
A-B	11	3			11				
A-C	527	132			527				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	250	62	622	0.402	250	0.7	0.7	9.672	A
B-A	21	5	183	0.114	21	0.1	0.1	22.168	C
C-AB	356	89	613	0.580	356	1.4	1.5	14.015	B
C-A	887	222			887				
A-B	11	3			11				
A-C	527	132			527				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	204	51	653	0.312	205	0.7	0.5	8.049	A
B-A	17	4	239	0.072	17	0.1	0.1	16.271	C
C-AB	273	68	598	0.457	276	1.5	0.9	11.243	B
C-A	742	185			742				
A-B	9	2			9				
A-C	431	108			431				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	171	43	674	0.254	171	0.5	0.3	7.171	A
B-A	14	4	279	0.051	14	0.1	0.1	13.624	B
C-AB	226	57	606	0.373	227	0.9	0.6	9.525	A
C-A	624	156			624				
A-B	8	2			8				
A-C	361	90			361				

Queue Variation Results for each time segment

16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.34	0.00	0.00	0.34	0.34			N/A	N/A
B-A	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.59	0.55	1.00	1.40	1.45			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.45	0.00	0.00	0.45	0.45			N/A	N/A
B-A	0.08	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	0.84	0.17	0.94	1.42	1.49			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.66	0.03	0.26	0.66	0.66			N/A	N/A
B-A	0.13	0.03	0.26	0.47	0.50			N/A	N/A
C-AB	1.43	0.03	0.28	1.43	3.92			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.67	0.03	0.29	1.16	2.90			N/A	N/A
B-A	0.13	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	1.46	0.03	0.28	1.46	4.76			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.46	0.00	0.00	0.46	0.46			N/A	N/A
B-A	0.08	0.00	0.00	0.08	0.08			N/A	N/A
C-AB	0.88	0.07	0.82	1.42	1.83			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.34	0.03	0.25	0.46	0.48			N/A	N/A
B-A	0.05	0.00	0.00	0.05	0.05			N/A	N/A
C-AB	0.61	0.05	0.46	1.40	1.40			N/A	N/A

2030 DS(A) , AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		6.57	A

Junction Network Options

Driving side	Lighting	Network residual capacity (%)	First arm reaching threshold
Left	Normal/unknown	1	Stream B-A

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D11	2030 DS(A)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	633	100.000
B - High Street		ONE HOUR	✓	373	100.000
C - Leeds Road (N)		ONE HOUR	✓	1105	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	13	620
	B - High Street	3	0	370
	C - Leeds Road (N)	763	342	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.67	17.93	2.0	8.4	C	340	509
B-A	0.03	33.56	0.0	0.5	D	3	4
C-AB	0.71	18.79	2.8	13.9	C	348	523
C-A						665	998
A-B						12	18
A-C						569	853

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	279	70	662	0.421	276	0.0	0.7	9.243	A
B-A	2	0.56	240	0.009	2	0.0	0.0	15.132	C
C-AB	260	65	587	0.444	257	0.0	0.8	10.819	B
C-A	572	143			572				
A-B	10	2			10				
A-C	467	117			467				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	333	83	640	0.520	331	0.7	1.1	11.622	B
B-A	3	0.67	187	0.014	3	0.0	0.0	19.529	C
C-AB	321	80	586	0.548	319	0.8	1.2	13.443	B
C-A	672	168			672				
A-B	12	3			12				
A-C	557	139			557				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	407	102	608	0.671	404	1.1	1.9	17.379	C
B-A	3	0.83	113	0.029	3	0.0	0.0	32.906	D
C-AB	464	116	657	0.706	458	1.2	2.6	17.867	C
C-A	753	188			753				
A-B	14	4			14				
A-C	683	171			683				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	407	102	607	0.671	407	1.9	2.0	17.927	C
B-A	3	0.83	111	0.030	3	0.0	0.0	33.564	D
C-AB	464	116	657	0.706	463	2.6	2.8	18.789	C
C-A	753	188			753				
A-B	14	4			14				
A-C	683	171			683				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	333	83	639	0.520	336	2.0	1.1	11.998	B
B-A	3	0.67	184	0.015	3	0.0	0.0	19.854	C
C-AB	321	80	586	0.548	327	2.8	1.3	14.234	B
C-A	672	168			672				
A-B	12	3			12				
A-C	557	139			557				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	279	70	662	0.421	280	1.1	0.7	9.452	A
B-A	2	0.56	238	0.009	2	0.0	0.0	15.273	C
C-AB	260	65	587	0.444	262	1.3	0.8	11.160	B
C-A	572	143			572				
A-B	10	2			10				
A-C	467	117			467				

Queue Variation Results for each time segment

07:15 - 07:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.71	0.55	1.00	1.40	1.45			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.79	0.55	1.00	1.40	1.45			N/A	N/A

07:30 - 07:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.06	0.11	0.99	1.70	1.98			N/A	N/A
B-A	0.01	0.01	0.25	0.45	0.48			N/A	N/A
C-AB	1.22	0.11	1.07	1.99	2.71			N/A	N/A

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.93	0.03	0.29	1.93	8.37			N/A	N/A
B-A	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-AB	2.63	0.03	0.33	5.08	13.92			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.98	0.03	0.28	1.98	6.25			N/A	N/A
B-A	0.03	0.00	0.00	0.03	0.03			N/A	N/A
C-AB	2.77	0.03	0.30	2.80	12.61			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.11	0.06	0.70	2.39	3.41			N/A	N/A
B-A	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-AB	1.32	0.05	0.67	3.04	4.55			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.74	0.04	0.41	1.65	2.57			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.82	0.04	0.39	1.92	3.21			N/A	N/A

2030 DS(A) , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		4.41	A

Junction Network Options

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D12	2030 DS(A)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	397	100.000
B - High Street		ONE HOUR	✓	323	100.000
C - Leeds Road (N)		ONE HOUR	✓	1142	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	6	391
	B - High Street	27	0	296
	C - Leeds Road (N)	839	303	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.51	11.63	1.0	3.2	B	272	407
B-A	0.16	23.18	0.2	0.5	C	25	37
C-AB	0.57	13.21	1.4	4.2	B	287	431
C-A						761	1141
A-B						6	8
A-C						359	538

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	223	56	686	0.325	221	0.0	0.5	7.716	A
B-A	20	5	286	0.071	20	0.0	0.1	13.538	B
C-AB	229	57	621	0.369	227	0.0	0.6	9.081	A
C-A	631	158			631				
A-B	5	1			5				
A-C	294	74			294				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	266	67	666	0.399	265	0.5	0.7	8.962	A
B-A	24	6	244	0.099	24	0.1	0.1	16.337	C
C-AB	277	69	615	0.450	276	0.6	0.8	10.573	B
C-A	750	188			750				
A-B	5	1			5				
A-C	352	88			352				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	326	81	636	0.513	324	0.7	1.0	11.505	B
B-A	30	7	186	0.160	29	0.1	0.2	22.981	C
C-AB	357	89	629	0.567	354	0.8	1.3	13.020	B
C-A	901	225			901				
A-B	7	2			7				
A-C	430	108			430				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	326	81	635	0.513	326	1.0	1.0	11.629	B
B-A	30	7	185	0.161	30	0.2	0.2	23.182	C
C-AB	357	89	629	0.567	356	1.3	1.4	13.208	B
C-A	901	225			901				
A-B	7	2			7				
A-C	430	108			430				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	266	67	666	0.400	268	1.0	0.7	9.073	A
B-A	24	6	243	0.100	25	0.2	0.1	16.482	C
C-AB	277	69	615	0.450	279	1.4	0.8	10.765	B
C-A	750	188			750				
A-B	5	1			5				
A-C	352	88			352				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	223	56	685	0.325	224	0.7	0.5	7.812	A
B-A	20	5	285	0.071	20	0.1	0.1	13.639	B
C-AB	229	57	621	0.369	230	0.8	0.6	9.235	A
C-A	631	158			631				
A-B	5	1			5				
A-C	294	74			294				

Queue Variation Results for each time segment
16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.48	0.00	0.00	0.48	0.48			N/A	N/A
B-A	0.08	0.00	0.00	0.08	0.08			N/A	N/A
C-AB	0.58	0.55	1.00	1.40	1.45			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.65	0.16	0.91	1.38	1.44			N/A	N/A
B-A	0.11	0.00	0.00	0.11	0.11			N/A	N/A
C-AB	0.81	0.19	0.93	1.41	1.47			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.03	0.03	0.26	1.03	1.03			N/A	N/A
B-A	0.19	0.03	0.26	0.47	0.50			N/A	N/A
C-AB	1.34	0.03	0.27	1.34	2.91			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.04	0.03	0.28	1.04	3.16			N/A	N/A
B-A	0.19	0.03	0.26	0.47	0.50			N/A	N/A
C-AB	1.37	0.03	0.28	1.37	4.21			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.68	0.08	0.78	1.37	1.45			N/A	N/A
B-A	0.11	0.00	0.00	0.11	0.11			N/A	N/A
C-AB	0.85	0.08	0.83	1.25	1.70			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.49	0.04	0.42	1.26	1.39			N/A	N/A
B-A	0.08	0.00	0.00	0.08	0.08			N/A	N/A
C-AB	0.60	0.05	0.47	1.16	1.16			N/A	N/A

2030 DS(A+B) , AM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		6.33	A

Junction Network Options

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D13	2030 DS(A+B)	AM	ONE HOUR	07:15	08:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	752	100.000
B - High Street		ONE HOUR	✓	373	100.000
C - Leeds Road (N)		ONE HOUR	✓	1443	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	13	739
	B - High Street	3	0	370
	C - Leeds Road (N)	1101	342	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.71	21.56	2.4	11.5	C	340	509
B-A	0.05	62.43	0.1	0.5	F	3	4
C-AB	0.75	19.36	3.8	20.2	C	384	576
C-A						940	1410
A-B						12	18
A-C						678	1017

Main Results for each time segment

07:15 - 07:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	279	70	640	0.435	276	0.0	0.8	9.790	A
B-A	2	0.56	198	0.011	2	0.0	0.0	18.364	C
C-AB	263	66	573	0.459	259	0.0	0.8	11.377	B
C-A	824	206			824				
A-B	10	2			10				
A-C	556	139			556				

07:30 - 07:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	333	83	613	0.543	331	0.8	1.2	12.696	B
B-A	3	0.67	139	0.019	3	0.0	0.0	26.334	D
C-AB	334	83	583	0.572	331	0.8	1.4	14.194	B
C-A	964	241			964				
A-B	12	3			12				
A-C	664	166			664				

07:45 - 08:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	407	102	573	0.710	403	1.2	2.3	20.564	C
B-A	3	0.83	63	0.052	3	0.0	0.1	59.990	F
C-AB	555	139	745	0.745	547	1.4	3.5	17.937	C
C-A	1033	258			1033				
A-B	14	4			14				
A-C	814	203			814				

08:00 - 08:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	407	102	573	0.711	407	2.3	2.4	21.563	C
B-A	3	0.83	61	0.054	3	0.1	0.1	62.432	F
C-AB	555	139	745	0.745	554	3.5	3.8	19.358	C
C-A	1033	258			1033				
A-B	14	4			14				
A-C	814	203			814				

08:15 - 08:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	333	83	613	0.543	337	2.4	1.2	13.273	B
B-A	3	0.67	136	0.020	3	0.1	0.0	27.078	D
C-AB	334	83	583	0.572	343	3.8	1.5	15.559	C
C-A	964	241			964				
A-B	12	3			12				
A-C	664	166			664				

08:30 - 08:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	279	70	640	0.435	280	1.2	0.8	10.050	B
B-A	2	0.56	196	0.012	2	0.0	0.0	18.592	C
C-AB	263	66	573	0.459	265	1.5	0.9	11.810	B
C-A	824	206			824				
A-B	10	2			10				
A-C	556	139			556				

Queue Variation Results for each time segment

07:15 - 07:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.76	0.55	1.00	1.40	1.45			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.84	0.55	1.00	1.40	1.45			N/A	N/A

07:30 - 07:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.15	0.10	1.01	1.93	2.60			N/A	N/A
B-A	0.02	0.02	0.25	0.45	0.48			N/A	N/A
C-AB	1.38	0.10	1.11	2.63	3.46			N/A	N/A

07:45 - 08:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	2.28	0.03	0.31	3.44	11.46			N/A	N/A
B-A	0.05	0.03	0.25	0.46	0.48			N/A	N/A
C-AB	3.52	0.04	0.38	8.96	18.82			N/A	N/A

08:00 - 08:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	2.36	0.03	0.29	2.36	9.09			N/A	N/A
B-A	0.05	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	3.84	0.03	0.33	6.90	20.23			N/A	N/A

08:15 - 08:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.22	0.05	0.53	2.87	4.32			N/A	N/A
B-A	0.02	0.00	0.00	0.02	0.02			N/A	N/A
C-AB	1.52	0.05	0.61	3.77	5.71			N/A	N/A

08:30 - 08:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.78	0.04	0.38	1.84	3.12			N/A	N/A
B-A	0.01	0.00	0.00	0.01	0.01			N/A	N/A
C-AB	0.89	0.04	0.37	2.13	3.84			N/A	N/A

2030 DS(A+B) , PM

Data Errors and Warnings

Severity	Area	Item	Description
Warning	Vehicle Mix		HV% is zero for all movements / time segments. Vehicle Mix matrix should be completed whether working in PCUs or Vehs. If HV% at the junction is genuinely zero, please ignore this warning.
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	Use circulating lanes	Junction Delay (s)	Junction LOS
1	Junction 5b	T-Junction	Two-way		5.45	A

Junction Network Options

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

Traffic Demand

Demand Set Details

ID	Scenario name	Time Period name	Traffic profile type	Start time (HH:mm)	Finish time (HH:mm)	Time segment length (min)	Run automatically
D14	2030 DS(A+B)	PM	ONE HOUR	16:15	17:45	15	✓

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

Demand overview (Traffic)

Arm	Linked arm	Profile type	Use O-D data	Average Demand (PCU/hr)	Scaling Factor (%)
A - Leeds Road (S)		ONE HOUR	✓	754	100.000
B - High Street		ONE HOUR	✓	323	100.000
C - Leeds Road (N)		ONE HOUR	✓	1422	100.000

Origin-Destination Data

Demand (PCU/hr)

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	6	748
	B - High Street	27	0	296
	C - Leeds Road (N)	1119	303	0

Vehicle Mix

Heavy Vehicle Percentages

	To			
		A - Leeds Road (S)	B - High Street	C - Leeds Road (N)
From	A - Leeds Road (S)	0	0	0
	B - High Street	0	0	0
	C - Leeds Road (N)	0	0	0

Results

Results Summary for whole modelled period

Stream	Max RFC	Max Delay (s)	Max Queue (PCU)	Max 95th percentile Queue (PCU)	Max LOS	Average Demand (PCU/hr)	Total Junction Arrivals (PCU)
B-C	0.65	20.43	1.8	7.3	C	272	407
B-A	0.36	68.20	0.5	1.8	F	25	37
C-AB	0.66	16.96	2.3	11.0	C	311	466
C-A						994	1491
A-B						6	8
A-C						686	1030

Main Results for each time segment

16:15 - 16:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	223	56	618	0.361	221	0.0	0.6	9.014	A
B-A	20	5	215	0.095	20	0.0	0.1	18.454	C
C-AB	231	58	567	0.407	228	0.0	0.7	10.536	B
C-A	840	210			840				
A-B	5	1			5				
A-C	563	141			563				

16:30 - 16:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	266	67	581	0.458	265	0.6	0.8	11.348	B
B-A	24	6	160	0.152	24	0.1	0.2	26.465	D
C-AB	284	71	561	0.507	283	0.7	1.0	12.881	B
C-A	994	248			994				
A-B	5	1			5				
A-C	672	168			672				

16:45 - 17:00

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	326	81	506	0.644	322	0.8	1.7	19.218	C
B-A	30	7	84	0.354	28	0.2	0.5	63.574	F
C-AB	417	104	631	0.661	412	1.0	2.2	16.318	C
C-A	1149	287			1149				
A-B	7	2			7				
A-C	824	206			824				

17:00 - 17:15

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	326	81	501	0.650	326	1.7	1.8	20.433	C
B-A	30	7	82	0.362	30	0.5	0.5	68.200	F
C-AB	417	104	631	0.661	416	2.2	2.3	16.959	C
C-A	1149	287			1149				
A-B	7	2			7				
A-C	824	206			824				

17:15 - 17:30

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	266	67	578	0.460	270	1.8	0.9	11.806	B
B-A	24	6	158	0.154	26	0.5	0.2	27.544	D
C-AB	284	71	561	0.507	289	2.3	1.1	13.472	B
C-A	994	248			994				
A-B	5	1			5				
A-C	672	168			672				

17:30 - 17:45

Stream	Total Demand (PCU/hr)	Junction Arrivals (PCU)	Capacity (PCU/hr)	RFC	Throughput (PCU/hr)	Start queue (PCU)	End queue (PCU)	Delay (s)	Unsignalised level of service
B-C	223	56	617	0.361	224	0.9	0.6	9.192	A
B-A	20	5	213	0.095	21	0.2	0.1	18.731	C
C-AB	231	58	567	0.407	232	1.1	0.7	10.808	B
C-A	840	210			840				
A-B	5	1			5				
A-C	563	141			563				

Queue Variation Results for each time segment
16:15 - 16:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.56	0.55	1.00	1.40	1.45			N/A	N/A
B-A	0.10	0.00	0.00	0.10	0.10			N/A	N/A
C-AB	0.68	0.55	1.00	1.40	1.45			N/A	N/A

16:30 - 16:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.83	0.10	0.88	1.38	1.38			N/A	N/A
B-A	0.17	0.00	0.00	0.17	0.17			N/A	N/A
C-AB	1.04	0.13	1.00	1.59	1.89			N/A	N/A

16:45 - 17:00

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.71	0.03	0.29	1.71	7.24			N/A	N/A
B-A	0.50	0.03	0.28	0.51	1.79			N/A	N/A
C-AB	2.19	0.03	0.31	3.23	10.96			N/A	N/A

17:00 - 17:15

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	1.79	0.03	0.29	1.79	7.27			N/A	N/A
B-A	0.53	0.04	0.36	1.50	1.81			N/A	N/A
C-AB	2.30	0.03	0.30	2.30	10.22			N/A	N/A

17:15 - 17:30

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.87	0.05	0.62	1.69	2.31			N/A	N/A
B-A	0.19	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	1.11	0.06	0.76	2.30	3.21			N/A	N/A

17:30 - 17:45

Stream	Mean (PCU)	Q05 (PCU)	Q50 (PCU)	Q90 (PCU)	Q95 (PCU)	Percentile message	Marker message	Probability of reaching or exceeding marker	Probability of exactly reaching marker
B-C	0.57	0.04	0.39	1.05	1.78			N/A	N/A
B-A	0.11	0.03	0.25	0.45	0.48			N/A	N/A
C-AB	0.71	0.04	0.41	1.55	2.36			N/A	N/A